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OM protein - protein search, using sw model

Run on: April 18, 2006, 13:41:26 ; Search time 27 Seconds
(without alignments)
184.120 Million cell updates/sec

Title: US-10-764-140-4
Perfect score: 617
Sequence: 1 EIQLQSGPELVKPGASVQV.....RDVTALDFWGQGTTLTVSS 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 217505 seqs, 42489236 residues

Total number of hits satisfying chosen parameters: 217505

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.New.*
1: /SIDSS/ptodata/2/pubpaa/US08_NEW_PUB pep.*
2: /SIDSS/ptodata/2/pubpaa/US06_NEW_PUB pep.*
3: /SIDSS/ptodata/2/pubpaa/US07_NEW_PUB pep.*
4: /SIDSS/ptodata/2/pubpaa/PCT_NEW_PUB pep.*
5: /SIDSS/ptodata/2/pubpaa/US03_NEW_PUB pep.*
6: /SIDSS/ptodata/2/pubpaa/US10_NEW_PUB pep.*
7: /SIDSS/ptodata/2/pubpaa/US11_NEW_PUB pep.*
8: /SIDSS/ptodata/2/pubpaa/US60_NEW_PUB pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	617	100.0	117	US-11-087-528-4	Sequence 4, Appli
2	617	100.0	117	US-11-122-622-4	Sequence 4, Appli
3	503.5	81.6	117	US-11-074-373-39	Sequence 39, Appl
4	498.5	80.8	120	US-11-037-199-5	Sequence 5, Appli
5	483	78.3	112	US-10-246-019A-6	Sequence 6, Appli
6	468.5	75.9	139	US-10-504-389A-28	Sequence 28, Appl
7	466	75.5	118	US-11-171-567-203	Sequence 203, Appl
8	459	74.4	119	US-11-097-812-72	Sequence 72, Appl
9	459	74.4	119	US-11-097-812-81	Sequence 81, Appl
10	458	74.2	115	US-11-165-023-16	Sequence 16, Appl
11	454	73.6	119	US-11-097-812-63	Sequence 63, Appl
12	454	73.6	119	US-11-097-812-64	Sequence 64, Appl
13	454	73.6	119	US-11-097-812-65	Sequence 65, Appl
14	454	73.6	119	US-11-097-812-66	Sequence 66, Appl
15	454	73.6	119	US-11-097-812-67	Sequence 67, Appl
16	454	73.6	119	US-11-097-812-70	Sequence 70, Appl
17	454	73.6	119	US-11-097-812-71	Sequence 71, Appl
18	454	73.6	119	US-11-097-812-73	Sequence 73, Appl
19	454	73.6	119	US-11-097-812-74	Sequence 74, Appl
20	454	73.6	119	US-11-097-812-75	Sequence 75, Appl
21	454	73.6	119	US-11-097-812-76	Sequence 76, Appl
22	454	73.6	119	US-11-097-812-77	Sequence 77, Appl
23	454	73.6	119	US-11-097-812-80	Sequence 80, Appl
24	454	73.6	119	US-11-097-812-206	Sequence 206, Appl
25	454	73.6	120	US-11-097-812-136	Sequence 136, Appl

26	454	73.6	120	7	US-11-097-812-144	Sequence 144, App
27	454	73.6	120	7	US-11-097-812-145	Sequence 145, App
28	454	73.6	122	7	US-11-171-567-204	Sequence 204, App
29	454	73.6	130	7	US-11-188-187A-3	Sequence 3, Appli
30	450.5	73.0	130	7	US-11-179-820-6	Sequence 6, Appli
31	450	72.9	115	7	US-11-165-023-31	Sequence 31, Appl
32	450	72.9	119	7	US-11-097-812-78	Sequence 78, Appl
33	447	72.4	115	7	US-11-165-023-32	Sequence 32, Appl
34	447	72.4	120	7	US-11-097-812-138	Sequence 138, App
35	447	72.4	120	7	US-11-097-812-143	Sequence 143, App
36	445.5	72.2	671	7	US-11-202-507A-14	Sequence 14, Appl
37	445.5	72.2	672	7	US-11-202-507A-7	Sequence 7, Appli
38	444.5	72.0	243	6	US-10-016-686-1	Sequence 1, Appli
39	444.5	72.0	488	6	US-10-016-686-3	Sequence 3, Appli
40	444.5	72.0	592	6	US-10-016-686-4	Sequence 4, Appli
41	444.5	72.0	671	7	US-11-202-507A-8	Sequence 8, Appli
42	444.5	72.0	672	7	US-11-202-507A-6	Sequence 6, Appli
43	443	71.8	120	7	US-11-097-812-135	Sequence 135, App
44	441	71.5	115	7	US-11-218-813-19	Sequence 19, Appl
45	441	71.5	119	6	US-10-507-662-22	Sequence 22, Appl

ALIGNMENTS

RESULT 1

US-11-087-528-4
; Sequence 4, Application US/11087528
; Publication No. US20050271664A1
; GENERAL INFORMATION:
; APPLICANT: JIAO, JIN-AN
; APPLICANT: WONG, HING C.
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; FILE REFERENCE: TNA-005.06
; CURRENT APPLICATION NUMBER: US/11/087,528
; PRIOR FILING DATE: 2005-03-22
; PRIOR APPLICATION NUMBER: 10/293,417
; PRIOR FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: 08/814,806
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-087-528-4

Query Match 100.0%; Score 617; DB 7; Length 117;
Best Local Similarity 99.1%; Pred. No. 5.9e-50;
Matches 116; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY	1	EIQLQSGPELVKPGASVQVCKTXGYSFTDNNVYVWROSHGKSLWIGYIDPYNGITYI	60
Db	1	EIQLQSGPELVKPGASVQVCKTXGYSFTDNNVYVWROSHGKSLWIGYIDPYNGITYI	60
QY	61	DONFPGKATLTVDKSSITAFMHLNSLTSDDSAVYFCARDVTTALDFWGQGTTLTVSS	117
Db	61	DONFPGKATLTVDKSSITAFMHLNSLTSDDSAVYFCARDVTTALDFWGQGTTLTVSS	117

RESULT 2

US-11-122-622-4
; Sequence 4, Application US/11122622
; Publication No. US20060039901A1
; GENERAL INFORMATION:
; APPLICANT: JIAO, JIN-AN
; APPLICANT: WONG, HING C.
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS

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; TITLE OF INVENTION: OF USE THEREOF
; FILE REFERENCE: 71758/46943-CIP2
; CURRENT APPLICATION NUMBER: US/11/122,622
; CURRENT FILING DATE: 2005-05-05
; PRIOR APPLICATION NUMBER: US/09/990,586
; PRIOR FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-122-622-4

Query Match      100.0%; Score 617; DB 7; Length 117;
Best Local Similarity 99.1%; Pred. No. 5.9e-50;
Matches 116; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 60
   |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 60

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 117
   |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 117

RESULT 3
US-11-074-373-39
; Sequence 39, Application US/11074373
; Publication No. US20060024302A1
; GENERAL INFORMATION:
; APPLICANT: Achen et al.
; TITLE OF INVENTION: CHMERIC ANTI-VEGF-D ANTIBODIES AND HUMANIZED ANTI-VEGF-D ANTIBOD
; FILE REFERENCE: 28967/39969A
; CURRENT APPLICATION NUMBER: US/11/074,373
; CURRENT FILING DATE: 2005-03-07
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 39
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-074-373-39

Query Match      81.6%; Score 503.5; DB 7; Length 137;
Best Local Similarity 78.8%; Pred. No. 1.8e-39;
Matches 93; Conservative 13; Mismatches 11; Indels 1; Gaps 1;

QY 1 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 60
   |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 79

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCAR--DVTTLDFWGGGTTLTVSS 117
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 80 NQKFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARTSYGGMDYWGQGSVTVSS 137

RESULT 4
US-11-037-199-5
; Sequence 5, Application US/11037199
; Publication No. US20060030015A1
; GENERAL INFORMATION:
; APPLICANT: Japan Science and Technology Corporation
; TITLE OF INVENTION: Novel methods of producing antibody-enzyme, the antibody-enzymes,
; FILE REFERENCE: A251-01/PCT
; CURRENT APPLICATION NUMBER: US/11/037,199
; CURRENT FILING DATE: 2005-01-19
; PRIOR APPLICATION NUMBER: JP 2002-211756
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; PRIOR FILING DATE: 2002-7-19
; PRIOR APPLICATION NUMBER: JP 2002-211768
; PRIOR FILING DATE: 2002-7-19
; PRIOR APPLICATION NUMBER: JP 2003-051943
; PRIOR FILING DATE: 2003-2-27
; PRIOR APPLICATION NUMBER: JP 2003-198270
; PRIOR FILING DATE: 2003-7-17
; PRIOR APPLICATION NUMBER: JP 2003-198281
; PRIOR FILING DATE: 2003-7-17
; PRIOR APPLICATION NUMBER: JP 2003-198292
; PRIOR FILING DATE: 2003-7-17
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-037-199-5

Query Match      80.8%; Score 498.5; DB 7; Length 120;
Best Local Similarity 79.2%; Pred. No. 4.4e-39;
Matches 95; Conservative 11; Mismatches 11; Indels 3; Gaps 1;

QY 1 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 60
   |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 60

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCAR--DVTTLDFWGGGTTLTVSS 117
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 NQKFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARFVVVADVMDYWGQGSVTVSS 120

RESULT 5
US-10-246-019A-6
; Sequence 6, Application US/10246019A
; Publication No. US20060073133A1
; GENERAL INFORMATION:
; APPLICANT: Kikly, Kristine K.
; APPLICANT: Abrahamson, Julie
; TITLE OF INVENTION: Sialoadhesin Factor-3 Antibodies
; FILE REFERENCE: GH50019-1C1
; CURRENT APPLICATION NUMBER: US/10/246,019A
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: USSN 09/577,930
; PRIOR FILING DATE: 2000-01-22
; PRIOR APPLICATION NUMBER: USSN 09/046,736
; PRIOR FILING DATE: 1998-03-24
; PRIOR APPLICATION NUMBER: USSN 60/041,885
; PRIOR FILING DATE: 1997-04-02
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Human
US-10-246-019A-6

Query Match      78.3%; Score 483; DB 6; Length 112;
Best Local Similarity 78.4%; Pred. No. 1.1e-37;
Matches 91; Conservative 10; Mismatches 11; Indels 4; Gaps 1;

QY 1 EIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNGITIIY 60
   |||||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 QIQLOQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVWROSHGKSLSEWIGYIDPYNDITGY 60

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 116
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 NQKFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCASEGI----HWGGGTLTVSS 112

RESULT 6
US-10-504-389A-28
; Sequence 28, Application US/10504389A
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; Publication No. US20060045876A1
; GENERAL INFORMATION:
; APPLICANT: Renner, Christoph
; APPLICANT: Scott, Andrew
; TITLE OF INVENTION: FUSION PROTEINS OF HUMANIZED G250 SPECIFIC
; TITLE OF INVENTION: ANTIBODIES AND USES THEREOF
; FILE REFERENCE: LUD 5821
; CURRENT APPLICATION NUMBER: US/10/504,389A
; PRIOR FILING DATE: 2004-08-10
; PRIOR APPLICATION NUMBER: PCT/US03/04243
; PRIOR FILING DATE: 2002-02-12
; NUMBER OF SEQ ID NOS: 56
; SEQ ID NO 28
; LENGTH: 139
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: amino acid sequence for murine 19/2 heavy chain variable region
US-10-504-389A-28

Query Match 75.9%; Score 468.5; DB 6; Length 139;
Best Local Similarity 73.7%; Pred. No. 2.9e-36;
Matches 87; Conservative 15; Mismatches 15; Indels 1; Gaps 1;

QY 1 ETLOQSGPELVKPGASVQVCKTXGYSFTDYNVYVWQSHGKSLWIGVIDPYNGITIY 60
DB 18 EVLOQSGPELVKPGASVKISCKASGYTFDYNHWKQSHGSLDWIGYIAPYSGGTGY 77
QY 61 DONFKGKATLTVDKSSSTTAFMHLNSLTSDSVAVYFCA-RDVTTLDFWGGTTLTVSS 117
DB 78 NQEFKRAATLTVDKSSSTAYMQLKSLTSDSVAVYFCARDRTFFDYWGQGTTLTVSS 135

RESULT 7
US-11-171-567-203
; Sequence 203, Application US/11171567
; Publication No. US20060057651A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: McWhirter, John
; TITLE OF INVENTION: POLYPEPTIDES AND ANTIBODIES DERIVED FROM CHRONIC LYMPHOCYTIC LEUK
; TITLE OF INVENTION: CELLS AND USES THEREOF
; FILE REFERENCE: ALEX-P06-060
; CURRENT APPLICATION NUMBER: US/11/171,567
; CURRENT FILING DATE: 2005-06-30
; PRIOR APPLICATION NUMBER: US 10/996,316
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: US 10/894,672
; PRIOR FILING DATE: 2004-07-20
; PRIOR APPLICATION NUMBER: US 10/736,188
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 10/379,151
; PRIOR FILING DATE: 2003-03-04
; PRIOR APPLICATION NUMBER: PCT/US01/47931
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/254,113
; PRIOR FILING DATE: 2000-12-08
; NUMBER OF SEQ ID NOS: 213
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 203
; LENGTH: 118
; TYPE: PRT
; ORGANISM: murine
US-11-171-567-203

Query Match 75.5%; Score 466; DB 7; Length 118;
Best Local Similarity 72.6%; Pred. No. 4.2e-36;
Matches 85; Conservative 15; Mismatches 17; Indels 0; Gaps 0;

QY 1 ETLOQSGPELVKPGASVQVCKTXGYSFTDYNVYVWQSHGKSLWIGVIDPYNGITIY 60
DB 2 EVLOQSGPELVKPGASVKISCKASGYTFDYLWVQNHGKSLWIGHIDPYGSSNY 61
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QY 61 DONFKGKATLTVDKSSSTTAFMHLNSLTSDSVAVYFCAVDVTTLDFWGGTTLTVSS 117
DB 62 NLKFKGKATLTVDKSSSTAYMQLNSLTSDSVAVYCGRSKRDYFDYWGQGTTLTVSS 118

RESULT 8
US-11-097-812-72
; Sequence 72, Application US/11097812
; Publication No. US20050281828A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Kretz-Rommel, Anke
; APPLICANT: Dakappagari, Naveen
; TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
; TITLE OF INVENTION: PRESENTATION BY TOLERANCE INDUCING ANTIGEN PRESENTING CELLS
; FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
; CURRENT APPLICATION NUMBER: US/11/097,812
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 11/016,647
; PRIOR FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: PCT/US04/06570
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: US 60/548,385
; PRIOR FILING DATE: 2004-02-28
; PRIOR APPLICATION NUMBER: US 60/529,500
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 60/451,816
; PRIOR FILING DATE: 2003-03-04
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 72
; LENGTH: 119
; TYPE: PRT
; ORGANISM: mouse
US-11-097-812-72

Query Match 74.4%; Score 459; DB 7; Length 119;
Best Local Similarity 72.3%; Pred. No. 1.8e-35;
Matches 86; Conservative 16; Mismatches 15; Indels 2; Gaps 1;

QY 1 ETLOQSGPELVKPGASVQVCKTXGYSFTDYNVYVWQSHGKSLWIGVIDPYNGITIY 60
DB 1 EVLOQSGPELVKPGASVKISCKASGYFTGYNMWNKQSHGKSLWIGNIDPYGTSY 60
QY 61 DONFKGKATLTVDKSSSTTAFMHLNSLTSDSVAVYFCAVDVT--TALDFWGGTTLTVSS 117
DB 61 NQKFKGKATLTVDKSSSTAYMQLKSLTSDSVAVYFCARTALTSTWDYWGQGTSTVTVSS 119

RESULT 9
US-11-097-812-81
; Sequence 81, Application US/11097812
; Publication No. US20050281828A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Kretz-Rommel, Anke
; APPLICANT: Dakappagari, Naveen
; TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
; TITLE OF INVENTION: PRESENTATION BY TOLERANCE INDUCING ANTIGEN PRESENTING CELLS
; FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
; CURRENT APPLICATION NUMBER: US/11/097,812
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 11/016,647
; PRIOR FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: PCT/US04/06570
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: US 60/548,385
; PRIOR FILING DATE: 2004-02-28
; PRIOR APPLICATION NUMBER: US 60/529,500
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 60/451,816
; PRIOR FILING DATE: 2003-03-04
; NUMBER OF SEQ ID NOS: 207
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/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 81
/ LENGTH: 119
/ TYPE: PRT
/ ORGANISM: mouse
US-11-097-812-81

Query Match          74.4%; Score 459; DB 7; Length 119;
Best Local Similarity 72.3%; Pred. No. 1.8e-35;
Matches 86; Conservative 16; Mismatches 15; Indels 2; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVWVRSQSHGKSLWIGYIDPYNGITYI 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLQSGPELEKPGASVKISCKASGYSTGYNMWVKQSGKSLWIGNIDPYGDTY 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 DONFGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVT--TALDFWGGTTLTVSS 117
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 NQKFGKATLTVDKSSSTAYMQLSLTSDSAVYICARTATALTNDYWGQGTSTVTVSS 119
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10
US-11-165-023-16
/ Sequence 16, Application US/11165023
/ Publication No. US20060019342A1
/ GENERAL INFORMATION:
/ APPLICANT: Dall'Acqua, William
/ APPLICANT: Wu, Herren
/ APPLICANT: Damechroder, Melissa
/ TITLE OF INVENTION: INCREASING THE PRODUCTION OF RECOMBINANT ANTIBODIES IN MAMMALIAN
/ FILE REFERENCE: AE7000US
/ CURRENT APPLICATION NUMBER: US/11/165,023
/ CURRENT FILING DATE: 2005-06-24
/ PRIOR APPLICATION NUMBER: US 60/583,184
/ PRIOR FILING DATE: 2004-06-25
/ PRIOR APPLICATION NUMBER: US 60/624,153
/ PRIOR FILING DATE: 2004-11-02
/ NUMBER OF SEQ ID NOS: 32
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 16
/ LENGTH: 115
/ TYPE: PRT
/ ORGANISM: Artificial
/ FEATURE:
/ OTHER INFORMATION: recombinant antibody variable region
US-11-165-023-16

Query Match          74.2%; Score 458; DB 7; Length 115;
Best Local Similarity 71.8%; Pred. No. 2.2e-35;
Matches 84; Conservative 17; Mismatches 14; Indels 2; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVWVRSQSHGKSLWIGYIDPYNGITYI 60
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Db 1 EVQLQSGPELVKPGASVQVSKTXGYSFTGYNMWVKQSHGKSLWIGYISYNGVTY 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 DONFGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVT--TALDFWGGTTLTVSS 117
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 NQKFGKATLTVDKSSSTAYMQLSLTSDSAVYICAR--SHAMDYWGQGTSTVTVSS 115
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 11
US-11-097-812-63
/ Sequence 63, Application US/11097812
/ Publication No. US20050281828A1
/ GENERAL INFORMATION:
/ APPLICANT: Bowdish, Katherine S.
/ APPLICANT: Dakappagari, Naveen
/ APPLICANT: Kretz-Rommel, Anke
/ TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
/ FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
/ CURRENT APPLICATION NUMBER: US/11/097,812
/ CURRENT FILING DATE: 2005-04-01

Query Match          73.6%; Score 454; DB 7; Length 119;
Best Local Similarity 71.4%; Pred. No. 5.3e-35;
Matches 85; Conservative 15; Mismatches 17; Indels 2; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVWVRSQSHGKSLWIGYIDPYNGITYI 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLQSGPELEKPGASVKISCKASGYSTGYNMWVKQSGKSLWIGNIDPYGDTY 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 DONFGKATLTVDKSSSTTAFMHLNSLTSDSAVYFCARDVT--ALDFWGGTTLTVSS 117
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 NQKFGKATLTVDKSSSTAYMQLSLTSDSAVYICARTATALTALYTMWYWGQGTSTVTVSS 119
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 12
US-11-097-812-64
/ Sequence 64, Application US/11097812
/ Publication No. US20050281828A1
/ GENERAL INFORMATION:
/ APPLICANT: Bowdish, Katherine S.
/ APPLICANT: Kretz-Rommel, Anke
/ APPLICANT: Dakappagari, Naveen
/ TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
/ FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
/ CURRENT APPLICATION NUMBER: US/11/097,812
/ CURRENT FILING DATE: 2005-04-01
/ PRIOR APPLICATION NUMBER: US 11/016,647
/ PRIOR FILING DATE: 2004-12-17
/ PRIOR APPLICATION NUMBER: PCT/US04/06570
/ PRIOR FILING DATE: 2004-03-04
/ PRIOR APPLICATION NUMBER: US 60/548,385
/ PRIOR FILING DATE: 2004-02-28
/ PRIOR APPLICATION NUMBER: US 60/529,500
/ PRIOR FILING DATE: 2003-12-15
/ PRIOR APPLICATION NUMBER: US 60/451,816
/ PRIOR FILING DATE: 2003-03-04
/ NUMBER OF SEQ ID NOS: 207
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 64
/ LENGTH: 119
/ TYPE: PRT
/ ORGANISM: mouse
US-11-097-812-64

Query Match          73.6%; Score 454; DB 7; Length 119;
Best Local Similarity 71.4%; Pred. No. 5.3e-35;
Matches 85; Conservative 15; Mismatches 17; Indels 2; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVWVRSQSHGKSLWIGYIDPYNGITYI 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVQLQSGPELEKPGASVKISCKASGYSTGYNMWVKQSGKSLWIGNIDPYGDTY 60
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 DONFGKATLTVDKSSSTTAFMHLNSLTSDSAVYFCARDVT--ALDFWGGTTLTVSS 117
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 NQKFGKATLTVDKSSSTAYMQLSLTSDSAVYICARTATALTALYTMWYWGQGTSTVTVSS 119
   |:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
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```

RESULT 13
US-11-097-812-65
; Sequence 65, Application US/11097812
; Publication No. US20050281828A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Kretz-Rommel, Anke
; APPLICANT: Dakappagari, Naveen
; TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
; PRESENTATION BY TOLERANCE INDUCING ANTIGEN PRESENTING CELLS
; FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
; CURRENT APPLICATION NUMBER: US/11/097,812
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 11/016,647
; PRIOR FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: PCT/US04/06570
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: US 60/548,385
; PRIOR FILING DATE: 2004-02-28
; PRIOR APPLICATION NUMBER: US 60/529,500
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 60/451,816
; PRIOR FILING DATE: 2003-03-04
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 65
; LENGTH: 119
; TYPE: PRT
; ORGANISM: mouse
US-11-097-812-65

```

```

Query Match 73.6%; Score 454; DB 7; Length 119;
Best Local Similarity 71.4%; Pred. No. 5.3e-35;
Matches 85; Conservative 15; Mismatches 17; Indels 2; Gaps 1;

QY 1 EILOQSGPELVKPGASVQVCKTXGYSFTDYNVYVRQSHGKSLEWIGYIDPYNGITY 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 1 EVLOQSGPELEKPGASVKISCKASGYSFTGYNMNVKQSGKSLEWIGNFDYGY 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTT--ALDFWQGTTLTVSS 117
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 61 NQKFKGKATLTVDKSSSTAYMQLKSLTSDSAVYVCARTATALTATYMDYWGQGTSTVTVSS 119
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

```

```

RESULT 14
US-11-097-812-66
; Sequence 66, Application US/11097812
; Publication No. US20050281828A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Kretz-Rommel, Anke
; APPLICANT: Dakappagari, Naveen
; TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
; PRESENTATION BY TOLERANCE INDUCING ANTIGEN PRESENTING CELLS
; FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
; CURRENT APPLICATION NUMBER: US/11/097,812
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 11/016,647
; PRIOR FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: PCT/US04/06570
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: US 60/548,385
; PRIOR FILING DATE: 2004-02-28
; PRIOR APPLICATION NUMBER: US 60/529,500
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 60/451,816
; PRIOR FILING DATE: 2003-03-04
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 66
; LENGTH: 119

```

```

; TYPE: PRT
; ORGANISM: mouse
US-11-097-812-66

Query Match 73.6%; Score 454; DB 7; Length 119;
Best Local Similarity 70.8%; Pred. No. 5.3e-35;
Matches 84; Conservative 15; Mismatches 18; Indels 2; Gaps 1;

QY 1 EILOQSGPELVKPGASVQVCKTXGYSFTDYNVYVRQSHGKSLEWIGYIDPYNGITY 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 1 EVLOQSGPELEKPGASVKISCKASGYSFTGYNMNVKQSGKSLEWIGNFDYGY 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTT--ALDFWQGTTLTVSS 117
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 61 NQKFKGKATLTVDKSSSTAYMQLKSLTSDSAVYVCARTATALTATYMDYWGQGTSTVTVSS 119
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 15
US-11-097-812-67
; Sequence 67, Application US/11097812
; Publication No. US20050281828A1
; GENERAL INFORMATION:
; APPLICANT: Bowdish, Katherine S.
; APPLICANT: Kretz-Rommel, Anke
; APPLICANT: Dakappagari, Naveen
; TITLE OF INVENTION: METHOD OF TREATING AUTOIMMUNE DISEASE BY INDUCING ANTIGEN
; PRESENTATION BY TOLERANCE INDUCING ANTIGEN PRESENTING CELLS
; FILE REFERENCE: 100 PCT CIP II (1087-82 PCT CIP II)
; CURRENT APPLICATION NUMBER: US/11/097,812
; CURRENT FILING DATE: 2005-04-01
; PRIOR APPLICATION NUMBER: US 11/016,647
; PRIOR FILING DATE: 2004-12-17
; PRIOR APPLICATION NUMBER: PCT/US04/06570
; PRIOR FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: US 60/548,385
; PRIOR FILING DATE: 2004-02-28
; PRIOR APPLICATION NUMBER: US 60/529,500
; PRIOR FILING DATE: 2003-12-15
; PRIOR APPLICATION NUMBER: US 60/451,816
; PRIOR FILING DATE: 2003-03-04
; NUMBER OF SEQ ID NOS: 207
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 67
; LENGTH: 119
; TYPE: PRT
; ORGANISM: mouse
US-11-097-812-67

```

```

Query Match 73.6%; Score 454; DB 7; Length 119;
Best Local Similarity 70.6%; Pred. No. 5.3e-35;
Matches 84; Conservative 15; Mismatches 18; Indels 2; Gaps 1;

QY 1 EILOQSGPELVKPGASVQVCKTXGYSFTDYNVYVRQSHGKSLEWIGYIDPYNGITY 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 1 EVLOQSGPELEKPGASVKISCKASGYSFTGYNMNVKQSGKSLEWIGNFDYGY 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTT--ALDFWQGTTLTVSS 117
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
DB 61 NQKFKGKATLTVDKSSSTAYMQLKSLTSDSAVYVCARTATALTATYMDYWGQGTSTVTVSS 119
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Search completed: April 18, 2006, 13:44:36
Job time : 27 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 18, 2006, 13:32:05 ; Search time 188 Seconds
(without alignments)
273.443 Million cell updates/sec

Title: US-10-764-140-4
Perfect score: 617
Sequence: 1 ETQLQQSGPELVKPGASVQV.....RDVTTALDFWGGGTTLTVSS 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A Geneseq 21:*

1: geneseqp1980s:*

2: geneseqp1990s:*

3: geneseqp2000s:*

4: geneseqp2001s:*

5: geneseqp2002s:*

6: geneseqp2003as:*

7: geneseqp2003bs:*

8: geneseqp2004s:*

9: geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	617	100.0	117	2	AAW71288	Human ant
2	617	100.0	117	6	ABR42700	Anti-t188
3	617	100.0	117	6	ABR42718	Anti-t188
4	616	99.8	117	8	ADJ35005	Murine an
5	616	99.8	117	8	ADJU06810	Murine H3
6	616	99.8	117	9	ADW07328	Mouse ant
7	616	99.8	117	9	AD240939	H36 D2 B7
8	611	99.0	117	6	ABR42719	Anti-t188
9	597	96.8	117	6	ABR42721	Anti-t188
10	584	94.7	117	6	ABR42721	Anti-t188
11	571	92.5	117	6	ABR42722	Anti-t188
12	561	90.9	117	6	ABR42723	Anti-t188
13	545	88.3	117	6	ABR42730	Anti-t188
14	542	87.8	117	6	ABR42731	Anti-t188
15	540	87.5	117	6	ABR42724	Anti-t188
16	539	87.4	117	6	ABR42729	Anti-t188
17	536	86.9	117	6	ABR42725	Anti-t188
18	536	86.9	117	6	ABR42728	Anti-t188
19	527	85.4	117	6	ABR42726	Anti-t188
20	521.5	84.5	118	2	AAV52755	Anti-t188
21	521.5	84.5	118	2	AAV52756	Anti-t188
22	521.1	84.4	117	6	ABR42727	Anti-t188
23	511.5	82.9	120	7	ABR82930	Anti-huma
24	498.5	80.8	120	8	ADJ26469	Murine I4

ALIGNMENTS

RESULT 1
AAW71288

ID AAW71288 standard; protein: 117 AA.

XX
AC AAW71288:[illegible]

XX Human anti-tissue factor heavy chain variable region.

XX	Human; anti-tissue factor light chain variable region; H36.D2.B7;
KW	anti-tissue factor heavy chain variable region; inhibition; antibody;
KW	blood coagulation; thrombosis; restenosis; thromboembolic condition;
KW	cardiovascular; infection; neoplastic disease; clot; diagnosis.

Aaw84093	Murine vlr
Adr73588	Anti-AR a
Adr73595	Anti-AR a
Adx44588	Mouse ant
Aay44600	Mouse ant
Adx45680	Mouse ant
Adx45685	Mouse ant
Aay44595	EacFPv12
Aay44596	EacFPv12
Aaw95481	Mouse gcr
Aae15811	Human mab
Aae38408	Murine vlr
Aay52760	Anti-tissu
Abp96759	TSH recep
Abp96760	TSH recep
Abp96760	TSH recep
Abp93889	Human cha
Aae12045	Murine ant
Aae39613	Murine SG
Aaw71882	Anti-Fas
Aae12919	Anti-huma
Aaw71886	Anti-Fas
Aae12919	Anti-huma
Aae12919	Anti-huma

CC arteriovenous shunt). The antibodies can also be used as a carrier for
CC drugs, particularly pharmaceuticals targeted for interaction with a blood
CC clot such as streptokinase, tissue plasminogen activator (t-PA) or
CC urokinase, or a cytotoxic agent by conjugating a suitable toxin to the
CC antibody. Further the antibodies can be used for treating a
CC thromboembolic condition associated with cardiovascular disease, an
CC infectious disease, a neoplastic disease or as a thrombolytic agent. The
CC antibodies can also be used for detection and diagnosis
XX
SQ Sequence 117 AA;
Query Match 100.0%; Score 617; DB 2; Length 117;
Best Local Similarity 99.1%; Pred. No. 4e-49;
Matches 116; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 EIQLQSGPELVKPGASVQVSKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITTY 60
DB 1 EIQLQSGPELVKPGASVQVSKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITTY 60
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTLDFWGGGTTLTVSS 117
DB 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTLDFWGGGTTLTVSS 117
RESULT 2
ID ABR42700 standard; protein; 117 AA.
XX ABR42700;
AC ABR42700;
DT 26-AUG-2003 (first entry)
XX
DE Anti-tissue factor antibody H36.D2.B7 VH region.
XX
KW Tissue factor; antibody; H36.D2.B7; anticoagulant; cytostatic;
KW antiinflammatory; mouse.
XX
OS Mus sp.
XX
FH Key Location/Qualifiers
FT Region 30..35 /note= "complementarity determining region 1"
FT Region 50..66 /note= "complementarity determining region 2"
FT Misc-difference 86 /note= "apparently encoded by TATT"
FT Region 99..106 /note= "complementarity determining region 3"
FT /note= "complementarity determining region 3"
XX WO2003037911-A2.
XX
XX 08-MAY-2003.
XX
XX 29-OCT-2002; 2002WO-US034727.
XX
XX 29-OCT-2001; 2001US-0343306P.
XX 21-NOV-2001; 2001US-00990586.
XX (SUNO-) SUNOL MOLECULAR CORP.
XX
XX Jiao J, Wong HC, Nieves EL, Mosquera LA;
XX WPI; 2003-468399/44.
XX N-PSDB; ACC58569.
XX New humanized antibody that binds specifically to human tissue factor,
XX useful for in vivo diagnostic methods, or for inhibiting blood
XX coagulation or blood clot formation, angiogenesis, tumor metastases or
XX inflammation in a mammal.
XX
XX Example 1; Fig 1B; 110pp; English.
XX
XX The present sequence is the protein sequence of the heavy chain variable

CC region (VH) of anti-recombinant human tissue factor (TF) murine antibody
CC H36.D2.B7 (ATCC HB-12255). The invention relates to antibodies,
CC especially humanized H36.D2.B7, that provide superior anticoagulant
CC activity by binding native human TF with high affinity and specificity.
CC The antibodies bind human TF, either alone or present in a TF:Factor VIIa
CC complex, effectively preventing Factor X (or Factor IX) binding to TF or
CC the complex, and thereby reducing blood coagulation. The humanized
CC antibodies are useful for inhibiting blood coagulation or blood clot
CC formation, angiogenesis, tumour metastases or inflammation in a mammal.
CC They are also useful as drug carriers, as cytotoxic agents, for reducing
CC TF levels in mammals, and for in vivo diagnosis
XX
SQ Sequence 117 AA;
Query Match 100.0%; Score 617; DB 6; Length 117;
Best Local Similarity 99.1%; Pred. No. 4e-49; 1; Indels 0; Gaps 0;
Matches 116; Conservative 0; Mismatches 1;
QY 1 EIQLQSGPELVKPGASVQVSKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITTY 60
DB 1 EIQLQSGPELVKPGASVQVSKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITTY 60
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTLDFWGGGTTLTVSS 117
DB 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTLDFWGGGTTLTVSS 117
RESULT 3
ID ABR42718 standard; protein; 117 AA.
XX ABR42718;
AC ABR42718;
DT 26-AUG-2003 (first entry)
XX
DE Anti-tissue factor chimeric antibody ch36 VH region.
XX
KW Tissue factor; humanization; antibody; anticoagulant; cytostatic;
KW antiinflammatory; mouse.
XX
OS Mus sp.
XX
FH Key Location/Qualifiers
FT Region 1..30 /note= "framework 1"
FT Region 31..35 /note= "complementarity determining region 1"
FT Region 36..49 /note= "framework 2"
FT Region 50..66 /note= "complementarity determining region 2"
FT Region 67..98 /note= "framework 3"
FT Region 99..106 /note= "complementarity determining region 3"
FT Region 107..117 /note= "framework 4"
XX WO2003037911-A2.
XX
XX 08-MAY-2003.
XX
XX 29-OCT-2002; 2002WO-US034727.
XX
XX 29-OCT-2001; 2001US-0343306P.
XX 21-NOV-2001; 2001US-00990586.
XX (SUNO-) SUNOL MOLECULAR CORP.
XX
XX Jiao J, Wong HC, Nieves EL, Mosquera LA;
XX WPI; 2003-468399/44.
XX

PT New humanized antibody that binds specifically to human tissue factor,
 PT useful for in vivo diagnostic methods, or for inhibiting blood
 PT coagulation or blood clot formation, angiogenesis, tumor metastases or
 PT inflammation in a mammal.

XX Claim 12; Fig 13; 110pp; English.

XX The present sequence is the protein sequence of the heavy chain variable
 CC region (VH) of anti-recombinant human tissue factor (TF) mouse-human
 CC chimeric antibody CH36. This sequence has been humanized in a series of
 CC steps (see ABR42719-34) to provide a humanized VH sequence for use in the
 CC production of an anti-human TF humanized antibody. Humanized antibodies
 CC of the invention provide superior anticoagulant activity by binding
 CC native human TF with high affinity and specificity. The antibodies bind
 CC human TF, either alone or present in a TF:Factor VIIa complex,
 CC effectively preventing Factor X (or Factor IX) binding to TF or the
 CC complex, and thereby reducing blood coagulation. The humanized antibodies
 CC are useful for inhibiting blood coagulation or blood clot formation,
 CC angiogenesis, tumor metastases or inflammation in a mammal. They are
 CC also useful as drug carriers, as cytotoxic agents, for reducing TF levels
 CC in mammals, and for in vivo diagnosis

XX SQ Sequence 117 AA;

Query Match 100.0%; Score 617; DB 6; Length 117;
 Best Local Similarity 99.1%; Pred. No. 4e-49;
 Matches 116; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 EIQLQSGPGLVKPGASVQVCKTGYSTFDYNNVYWRQSHGKSLEWIGYIDPYNGITIY 60
 |||||
 Db 1 EIQLQSGPGLVKPGASVQVCKTGYSTFDYNNVYWRQSHGKSLEWIGYIDPYNGITIY 60
 |||||
 QY 61 DQNFKGKATLTVDKSTTAPMHLNSLTSDSAVYFCARDVTTALDFWGQGTTLTVSS 117
 |||||
 Db 61 DQNFKGKATLTVDKSTTAPMHLNSLTSDSAVYFCARDVTTALDFWGQGTTLTVSS 117

RESULT 4

ADL35005
 ID ADL35005 standard; protein; 117 AA.

XX ADL35005;

XX 03-JUN-2004 (first entry)

XX Murine anti-tissue factor heavy chain antibody protein SegID 4.

XX murine; mouse; humanised antibody; variable domain; framework region; FR;
 KW huFR; immune system molecule; H36.D2.B7; anti-tissue factor.

XX Mus sp.

XX Key Location/Qualifiers

FT Misc-difference 25 /note= "Encoded by TCT"

XX WO2004020579-A2.

XX 11-MAR-2004.

XX 06-AUG-2003; 2003WO-US024637.

XX 29-AUG-2002; 2002US-00230880.

XX (SUNO-) SUNOL MOLECULAR CORP.

XX Wong HC, Stinson JR, Mosquera LA;

XX WPI; 2004-239169/22.

DR N-PSDB; ADL35004.

XX Producing humanized antibodies for diagnostic and therapeutic purposes
 PT comprises optimizing similarity between individual antibody framework

PT regions to help identify human framework regions suitable for making the
 PT antibodies.

XX Disclosure; SEQ ID NO 4; 137pp; English.

XX This invention relates to a novel method for producing a humanised
 CC antibody variable (V) domain or its fragment by optimising sequence
 CC similarity between individual antibody framework regions (FRs) in order
 CC to identify suitable human FRs (huFRs). Specifically, it refers to novel
 CC immune system molecules i.e. humanised monoclonal antibodies that exhibit
 CC suitable binding affinity with reduced immunogenicity in humans. The
 CC present invention describes a method of mutagenising DNA of non-human FRs
 CC to encode humanised FRs having an amino acid sequence that is
 CC substantially identical to the selected human FR previously identified
 CC through sequence similarity searching. As such, this method provides
 CC humanised light or heavy chain V domains of the sequence huFR1-CDR1-huFR2
 CC -CDR2-huFR3-CDR3-huFR4, which can be used as therapeutic or diagnostic
 CC products to treat and/or diagnose diseases in humans and animals.
 CC Furthermore, the method expands the number of best fit possibilities that
 CC can be generated and provides a rational basis for assembling nearly all
 CC humanised immune system molecules of interest. This polypeptide sequence
 CC is a murine anti-tissue factor heavy chain antibody H36.D2.B7 protein of
 CC the invention.

XX SQ Sequence 117 AA;

Query Match 99.8%; Score 616; DB 8; Length 117;
 Best Local Similarity 100.0%; Pred. No. 5e-49;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EIQLQSGPGLVKPGASVQVCKTGYSTFDYNNVYWRQSHGKSLEWIGYIDPYNGITIY 60
 |||||
 Db 1 EIQLQSGPGLVKPGASVQVCKTGYSTFDYNNVYWRQSHGKSLEWIGYIDPYNGITIY 60
 |||||
 QY 61 DQNFKGKATLTVDKSTTAPMHLNSLTSDSAVYFCARDVTTALDFWGQGTTLTVSS 117
 |||||
 Db 61 DQNFKGKATLTVDKSTTAPMHLNSLTSDSAVYFCARDVTTALDFWGQGTTLTVSS 117

RESULT 5

ADU06810

ID ADU06810 standard; protein; 117 AA.

XX ADU06810;

XX 10-FEB-2005 (first entry)

XX Murine H36.D2.B7 antibody VH SEQ ID NO:4.

XX septic shock syndrome; tissue factor; antibacterial; immunosuppressive;
 KW antibody; antibody therapy.

XX Mus musculus.

XX Key Location/Qualifiers

FT Misc-difference 25 /note= "Encoded by TCT"
 /note= "Variable amino acid"

FT Region 30..35 /label= CDR1

FT Region 50..66 /label= CDR2

FT Region 99..106 /label= CDR3

XX US2004229282-A1.

XX 18-NOV-2004.

XX 22-JAN-2004; 2004US-00764140.

XX 10-MAR-1997; 97US-00814806.

XX 16-APR-1999; 99US-00293854.

PR 12-NOV-2002; 2002US-00293417.
 XX (SUNO-) SUNOL MOLECULAR CORP.
 XX PA
 XX PI
 XX Wong HC, Jiao J;
 DR WPI; 2004-813246/80.
 DR N-PSDB; ADU06809.
 XX
 PT Treating or preventing septic shock syndrome in mammal, involves
 PT administering antibody that binds native human tissue factor and does not
 PT substantially bind non-native tissue factor.
 XX
 PS Claim 44; SEQ ID NO 4; 28pp; English.
 XX
 CC The invention relates to a novel method for treating or preventing (M1)
 CC septic shock syndrome in a mammal, involving administering to the mammal
 CC an effective amount of an antibody that binds native human tissue factor
 CC and does not substantially bind non-native tissue factor, where the
 CC factor X binding to the complex is inhibited and the administration is
 CC sufficient to prevent or treat the septic shock syndrome in the mammal.
 CC In (M1), the antibody has the binding specificity for native human tissue
 CC factor about equal to or greater than H36.D2.B7 (ATCC HB-12255), and is a
 CC monoclonal chimeric antibody. An antibody of the invention has
 CC antibacterial and immunosuppressive activity, and acts as an inhibitor of
 CC binding between factor X or factor VIIa and tissue factor/factor VIIa
 CC complex. The present sequence represents the heavy chain variable region
 CC of the murine antibody of the invention, H36.D2.B7.
 XX
 SQ Sequence 117 AA;
 Query Match 99.8%; Score 616; DB 8; Length 117;
 Best Local Similarity 100.0%; Pred. No. 5e-49;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 EIQLOQSGPELVKPGASVQVSKTXGYSFTDYNVYVWRQSHGKSLWIGYIDPYNGITIY 60
 DB 1 EIQLOQSGPELVKPGASVQVSKTXGYSFTDYNVYVWRQSHGKSLWIGYIDPYNGITIY 60
 QY 61 DQNFPGKATLTVDKSSITAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 117
 DB 61 DQNFPGKATLTVDKSSITAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 117
 RESULT 6
 ADM07328
 ID ADM07328 standard; protein; 117 AA.
 XX
 AC ADM07328;
 XX
 DT 07-APR-2005 (first entry)
 XX
 DE Mouse anti-tissue factor antibody H36.D2.B7 VH.
 XX
 KW Blood-clotting; heavy chain variable region; inflammation;
 KW antiinflammatory; antibody; tissue factor; sepsis;
 KW disseminated intravascular coagulation; anticoagulant;
 KW hematological disease; thrombosis; lung injury; respiratory-gen.;
 KW respiratory distress syndrome; immunosuppressive; Antibacterial;
 KW Antiarthritic; Antianemic; anemia; rheumatoid arthritis;
 KW glomerulonephritis; multiple sclerosis; psoriasis; sjogren's syndrome;
 KW inflammatory bowel disease.
 XX
 OS Mus sp.
 XX
 FH Key Location/Qualifiers
 FT Misc-difference 25 /label= UNKNOWN
 FT /note= "Encoded by TCT"
 XX
 XX WO2005004793-A2.
 XX
 PD 20-JAN-2005.

XX 04-JUN-2004; 2004WO-US017900.
 PF
 XX 19-JUN-2003; 2003US-0480254P.
 PR 22-JAN-2004; 2004US-0538892P.
 XX
 PA (SUNO-) SUNOL MOLECULAR CORP.
 XX
 XX Jiao J, Wong HC, Egan JO;
 XX WPI; 2005-091964/10.
 DR N-PSDB; ADM07327.
 XX
 PT Preventing or treating sepsis or inflammation in mammals comprises
 PT administering a humanized or chimeric antibody that binds to a human
 PT tissue factor to form a complex in which factor X or IX binding to the
 PT complex is inhibited.
 XX
 PS Disclosure; SEQ ID NO 4; 109pp; English.
 XX
 CC The invention relates to preventing or treating a sepsis or inflammatory
 CC disease in a mammal comprising administering to the mammal a therapeutic
 CC amount of at least one humanized antibody, chimeric antibody, or their
 CC fragment that binds specifically to tissue factor (TF) to form a complex,
 CC where factor X or IX binding to the complex is inhibited and the
 CC administration prevents or treats the sepsis in the mammal. Also included
 CC are a kit for performing the above method and reducing an inflammatory
 CC cytokine production in a mammal. The inflammatory disease is associated
 CC with arthritis (preferably rheumatoid arthritis), glomerulonephritis,
 CC multiple sclerosis, psoriasis, Sjogren's syndrome, or inflammatory bowel
 CC disease. The method also treats or prevents a sepsis-induced anemia or a
 CC sepsis-related condition in a mammal, where the sepsis-related condition
 CC is DIC, fibrin deposition, thrombosis, lung injury, or sepsis-associated
 CC renal disorder. The lung injury is acute lung injury (ALI) or acute
 CC respiratory distress syndrome (ARDS). The sepsis-associated renal
 CC disorder is acute tubular necrosis. The methods and kit are useful for
 CC preventing or treating sepsis or sepsis-related conditions (e.g. DIC or
 CC anemia) or inflammatory diseases (e.g. arthritis). The humanized
 CC antibodies are based on the chimeric antibody ch36 which comprises the
 CC light and heavy chain variable regions (VL or VH) of an anti-TF antibody
 CC fused to the human IgG4 heavy and kappa light constant regions. The CDRA
 CC (complementarity determining region) and FRs (framework regions) are then
 CC humanized. The present sequence represents the light or heavy chain
 CC variable region of the anti-TF antibody (wild-type).
 XX
 SQ Sequence 117 AA;
 Query Match 99.8%; Score 616; DB 9; Length 117;
 Best Local Similarity 100.0%; Pred. No. 5e-49;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 EIQLOQSGPELVKPGASVQVSKTXGYSFTDYNVYVWRQSHGKSLWIGYIDPYNGITIY 60
 DB 1 EIQLOQSGPELVKPGASVQVSKTXGYSFTDYNVYVWRQSHGKSLWIGYIDPYNGITIY 60
 QY 61 DQNFPGKATLTVDKSSITAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 117
 DB 61 DQNFPGKATLTVDKSSITAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTVSS 117
 RESULT 7
 ADZ40939
 ID ADZ40939 standard; protein; 117 AA.
 XX
 AC ADZ40939;
 XX
 DT 14-JUL-2005 (first entry)
 XX
 DE H36.D2.B7 anti-tissue factor heavy chain variable region.
 XX
 KW antibody; tissue factor; blood-clotting; anticoagulant; vasotropic;
 KW thrombolytic; cardiovascular disease; infectious disease; neoplasm;
 KW thrombosis; restenosis; heavy chain variable region.

CC complex, and thereby reducing blood coagulation. The humanized antibodies
 CC are useful for inhibiting blood coagulation or blood clot formation.
 CC angiogenesis, tumour metastases or inflammation in a mammal. They are
 CC also useful as drug carriers, as cytotoxic agents, for reducing TF levels
 CC in mammals, and for in vivo diagnosis

SQ Sequence 117 AA;
 Query Match 99.0%; Score 611; DB 6; Length 117;
 Best Local Similarity 97.4%; Pred. No. 1.4e-48;
 Matches 114; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSTDYNNVWRQSHGKSLWIGYIDPYNGITY 60

Db 1 QIQLQSGPELVKPGASVQVSKTSGYSTDYNNVWRQSHGKSLWIGYIDPYNGITY 60.

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTALDPFWGGTTLTVSS 117

Db 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTALDPFWGGTTLTVSS 117

RESULT 9

ABR42720

ID ABR42720 standard; protein; 117 AA.

XX ABR42720;

XX 26-AUG-2003 (first entry)

DE Anti-tissue factor humanized antibody VH region HC-02.

XX Tissue factor; humanization; antibody; anticoagulant; cytostatic;

KW antiinflammatory; human; mouse.

XX Mus sp.

OS Homo sapiens.

OS Chimeric.

FX Key Location/Qualifiers

FT Region 1..30

FT /note= "framework 1"

FT Misc-difference 1

FT /note= "wild-type Glu substituted by Gln"

FT Region 31..35

FT /note= "complementarity determining region 1"

FT Region 36..49

FT /note= "framework 2"

FT Misc-difference 41

FT /note= "wild-type His substituted by Pro"

FT Misc-difference 44

FT /note= "wild-type Ser substituted by Gly"

FT Region 50..66

FT /note= "complementarity determining region 2"

FT Region 67..98

FT /note= "framework 3"

FT Region 99..106

FT /note= "complementarity determining region 3"

FT Region 107..117

FT /note= "framework 4"

FT Misc-difference 113

FT /note= "wild-type Leu substituted by Val"

XX WO2003037911-A2.

XX 08-MAY-2003.

XX 29-OCT-2002; 2002WO-US034727.

XX 29-OCT-2001; 2001US-0343306P.

XX 21-NOV-2001; 2001US-00990586.

XX (SUNO-) SUNOL MOLECULAR CORP.

XX

PI Jiao J, Wong HC, Nieves EL, Mosquera LA;

XX WPI; 2003-468399/44.

XX New humanized antibody that binds specifically to human tissue factor,

FT useful for in vivo diagnostic methods, or for inhibiting blood

FT coagulation or blood clot formation, angiogenesis, tumor metastases or

FT inflammation in a mammal.

XX Claim 12; Fig 13; 110pp; English.

XX The present sequence is the protein sequence of a humanized version, HC-

CC 02, of the heavy chain variable region (VH) of anti-recombinant human

CC tissue factor (TF) mouse-human chimeric antibody ch36. A series of PCR

CC mutagenesis steps was used to introduce mutations into the ch36 sequence

CC to fully humanize the VH region (see ABR42719-31) and hence for the

CC production of an anti-human TF humanized antibody. Humanized antibodies

CC of the invention provide superior anticoagulant activity by binding

CC native human TF with high affinity and specificity. The antibodies bind

CC human TF, either alone or present in a TF:Factor VIIa complex,

CC effectively preventing Factor X (or Factor IX) binding to TF or the

CC complex, and thereby reducing blood coagulation. The humanized antibodies

CC are useful for inhibiting blood coagulation or blood clot formation,

CC angiogenesis, tumour metastases or inflammation in a mammal. They are

CC also useful as drug carriers, as cytotoxic agents, for reducing TF levels

CC in mammals, and for in vivo diagnosis

XX SQ Sequence 117 AA;

Query Match 96.8%; Score 597; DB 6; Length 117;

Best Local Similarity 95.7%; Pred. No. 2.8e-47;

Matches 112; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSTDYNNVWRQSHGKSLWIGYIDPYNGITY 60

Db 1 QIQLQSGPELVKPGASVQVSKTSGYSTDYNNVWRQSHGKSLWIGYIDPYNGITY 60

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTALDPFWGGTTLTVSS 117

Db 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTALDPFWGGTTLTVSS 117

RESULT 10

ABR42721

ID ABR42721 standard; protein; 117 AA.

XX ABR42721;

XX 26-AUG-2003 (first entry)

DE Anti-tissue factor humanized antibody VH region HC-03.

XX Tissue factor; humanization; antibody; anticoagulant; cytostatic;

KW antiinflammatory; mouse; human.

XX Mus sp.

OS Homo sapiens.

OS Chimeric.

FX Key Location/Qualifiers

FT Region 1..30

FT /note= "framework 1"

FT Misc-difference 1

FT /note= "wild-type Glu substituted by Gln"

FT Region 31..35

FT /note= "complementarity determining region 1"

FT Region 36..49

FT /note= "framework 2"

FT Misc-difference 41

FT /note= "wild-type His substituted by Pro"

FT Misc-difference 44

FT /note= "wild-type Ser substituted by Gly"

XX 50..66

```

FT Region /note= "complementarity determining region 2"
FT 67..98
FT /note= "framework 3"
FT Misc-difference 87
FT /note= "wild-type Thr substituted by Arg"
FT Misc-difference 89
FT /note= "wild-type Asp substituted by Glu"
FT Misc-difference 91
FT /note= "wild-type Ser substituted by Thr"
FT Region 99..106
FT /note= "complementarity determining region 3"
FT Region 107..117
FT /note= "framework 4"
FT Misc-difference 113
FT /note= "wild-type Leu substituted by Val"
FT
XX WO2003037911-A2.
XX
XX 08-MAY-2003.
XX
XX 29-OCT-2002; 2002WO-US034727.
XX
XX 29-OCT-2001; 2001US-0343306P.
XX 21-NOV-2001; 2001US-00990586.
XX (SUNO-) SUNOL MOLECULAR CORP.
XX
XX Jiao J, Wong HC, Nieves EL, Mosquera LA;
XX WPI; 2003-468399/44.
XX
XX New humanized antibody that binds specifically to human tissue factor,
XX useful for in vivo diagnostic methods, or for inhibiting blood
XX coagulation or blood clot formation, angiogenesis, tumor metastases or
XX inflammation in a mammal.
XX
XX Claim 12; Fig 13; 110pp; English.
XX
XX The present sequence is the protein sequence of a humanized version, HC-
XX 03, of the heavy chain variable region (VH) of anti-recombinant human
XX tissue factor (TF) mouse-human chimeric antibody ch36. A series of PCR
XX mutagenesis steps was used to introduce mutations into the ch36 sequence
XX to fully humanize the VH region (see ABR42722-31) and hence for the
XX production of an anti-human TF humanized antibody. Humanized antibodies
XX of the invention provide superior anticoagulant activity by binding
XX native human TF with high affinity and specificity. The antibodies bind
XX human TF, either alone or present in a TF:Factor VIIa complex,
XX effectively preventing Factor X (or Factor IX) binding to TF or the
XX complex, and thereby reducing blood coagulation. The humanized antibodies
XX are useful for inhibiting blood coagulation or blood clot formation,
XX angiogenesis, tumor metastases or inflammation in a mammal. They are
XX also useful as drug carriers, as cytotoxic agents, for reducing TF levels
XX in mammals, and for in vivo diagnosis
XX
XX Sequence 117 AA;
XX
XX Query Match 94.7%; Score 584; DB 6; Length 117;
XX Best Local Similarity 93.2%; Pred. No. 4.4e-46;
XX Matches 109; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
XX
XX 1 ETLOQSGPELVKPGASVQVSKTGYSTFDNVVWVRSQSHKSLWIGYIDPYNGITY 60
XX :|||||
XX 1 QILOQSGPELVKPGASVQVSKTGYSTFDNVVWVRSQSGKLEWIGYIDPYNGITY 60
XX :|||||
XX 61 DQNFKGKATLTVDKSSTFMHLNSLTSDSAVYFCARDVTTLDPFGGGTTLTVSS 117
XX :|||||
XX 61 DQNFKGKATLTVDKSSTFMHLNSLTSDSAVYFCARDVTTLDPFGGGTTLTVSS 117
XX :|||||

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RESULT 11
 ABR42722
 ID ABR42722 standard; protein; 117 AA.
 XX

AC ABR42722;
 XX
 DT 26-AUG-2003 (first entry)
 XX
 DE Anti-tissue factor humanized antibody VH region HC-04.
 XX
 KW Tissue factor; humanization; antibody; anticoagulant; cytostatic;
 XX antiinflammatory; mouse; human.
 OS Mus sp.
 OS Homo sapiens.
 OS Chimeric.
 XX
 FH Key Location/Qualifiers
 FT Region 1..30
 FT /note= "framework 1"
 FT Misc-difference 1
 FT /note= "wild-type Glu substituted by Gln"
 FT Region 31..35
 FT /note= "complementarity determining region 1"
 FT Region 36..49
 FT /note= "framework 2"
 FT Misc-difference 41
 FT /note= "wild-type His substituted by Pro"
 FT Misc-difference 44
 FT /note= "wild-type Ser substituted by Gly"
 FT Region 50..66
 FT /note= "complementarity determining region 2"
 FT Region 67..98
 FT /note= "framework 3"
 FT Misc-difference 82
 FT /note= "wild-type His substituted by Glu"
 FT Misc-difference 84
 FT /note= "wild-type Asn substituted by Ser"
 FT Misc-difference 87
 FT /note= "wild-type Thr substituted by Arg"
 FT Misc-difference 89
 FT /note= "wild-type Asp substituted by Glu"
 FT Misc-difference 91
 FT /note= "wild-type Ser substituted by Thr"
 FT Region 99..106
 FT /note= "complementarity determining region 3"
 FT Region 107..117
 FT /note= "framework 4"
 FT Misc-difference 113
 FT /note= "wild-type Leu substituted by Val"
 XX
 PN WO2003037911-A2.
 XX
 XX 08-MAY-2003.
 XX
 XX 29-OCT-2002; 2002WO-US034727.
 XX
 XX 29-OCT-2001; 2001US-0343306P.
 XX 21-NOV-2001; 2001US-00990586.
 XX (SUNO-) SUNOL MOLECULAR CORP.
 XX
 XX Jiao J, Wong HC, Nieves EL, Mosquera LA;
 XX WPI; 2003-468399/44.
 XX
 XX New humanized antibody that binds specifically to human tissue factor,
 XX useful for in vivo diagnostic methods, or for inhibiting blood
 XX coagulation or blood clot formation, angiogenesis, tumor metastases or
 XX inflammation in a mammal.
 XX
 XX Claim 12; Fig 13; 110pp; English.
 XX
 XX The present sequence is the protein sequence of a humanized version, HC-
 XX 04, of the heavy chain variable region (VH) of anti-recombinant human
 XX tissue factor (TF) mouse-human chimeric antibody ch36. A series of PCR
 XX mutagenesis steps was used to introduce mutations into the ch36 sequence
 XX to fully humanize the VH region (see ABR42722-31) and hence for the
 XX production of an anti-human TF humanized antibody. Humanized antibodies
 XX of the invention provide superior anticoagulant activity by binding
 XX native human TF with high affinity and specificity. The antibodies bind
 XX human TF, either alone or present in a TF:Factor VIIa complex,
 XX effectively preventing Factor X (or Factor IX) binding to TF or the
 XX complex, and thereby reducing blood coagulation. The humanized antibodies
 XX are useful for inhibiting blood coagulation or blood clot formation,
 XX angiogenesis, tumor metastases or inflammation in a mammal. They are
 XX also useful as drug carriers, as cytotoxic agents, for reducing TF levels
 XX in mammals, and for in vivo diagnosis
 XX
 XX Sequence 117 AA;
 XX
 XX Query Match 94.7%; Score 584; DB 6; Length 117;
 XX Best Local Similarity 93.2%; Pred. No. 4.4e-46;
 XX Matches 109; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
 XX
 XX 1 ETLOQSGPELVKPGASVQVSKTGYSTFDNVVWVRSQSHKSLWIGYIDPYNGITY 60
 XX :|||||
 XX 1 QILOQSGPELVKPGASVQVSKTGYSTFDNVVWVRSQSGKLEWIGYIDPYNGITY 60
 XX :|||||
 XX 61 DQNFKGKATLTVDKSSTFMHLNSLTSDSAVYFCARDVTTLDPFGGGTTLTVSS 117
 XX :|||||
 XX 61 DQNFKGKATLTVDKSSTFMHLNSLTSDSAVYFCARDVTTLDPFGGGTTLTVSS 117
 XX :|||||

CC to fully humanize the VH region (see ABR42719-31) and hence for the
CC production of an anti-human TF humanized antibody. Humanized antibodies
CC of the invention provide superior anticoagulant activity by binding
CC native human TF with high affinity and specificity. The antibodies bind
CC human TF, either alone or present in a TF:Factor VIIa complex,
CC effectively preventing factor X (or factor IX) binding to TF or the
CC complex, and thereby reducing blood coagulation. The humanized antibodies
CC are useful for inhibiting blood coagulation or blood clot formation,
CC angiogenesis, tumour metastases or inflammation in a mammal. They are
CC also useful as drug carriers, as cytotoxic agents, for reducing TF levels
CC in mammals, and for *in vivo* diagnosis
CC
CC Sequence 117 AA;
SQ

Query Match	92.5%	Score 571	DB 6	Length 117
Best Local Similarity	91.5%	Pred. No. 7e-45		
Matches 107	Conservative 5	Mismatches 5	Indels 0	Gaps 0
Qy	1	EQIQQSGPELVKPGASVQVSKTXGYSFTDNYVYWRQSHGKSGLEWIGYIDPNNGITIIY	60	
	:	:	:	:
Db	1	QIQIQQSGPELVKPGASVQVSKTSGYSFTDNYVYWRQSPGKLEWIGYIDPNNGITIIY	60	
Qy	61	DQNEKGRATLVDKSSSTAFMHLNSLSLSDSDSANVFCARDVTTLALDFWCGQGTTLTVSS	117	
	:	:	:	:
Db	61	DQNEKGRATLVDKSSSTAFMELSSKASEDTAVVFCARDVTTLALDFWCGQGTTLTVSS	117	

RESULT 12	
ABR42723	
ID	ABR42723 standard; protein; 117 AA.
XX	
XX	
AC	ABR42723;
XX	
XX	
DT	26-AUG-2003 (first entry)
XX	
DE	Anti-tissue factor humanized antibody VH region HC-05.
XX	
XX	
KW	Tissue factor; humanization; antibody; anticoagulant; cytostatic;
KW	antiinflammatory; mouse; human.

FT	Misc-difference 89	/note= "wild-type Asp substituted by Glu"
FT	Misc-difference 91	/note= "wild-type Ser substituted by Thr"
FT	Region	99..106
FT	Region	/note= "complementarity determining region 3"
FT	Region	107..117
FT	Misc-difference 113	/note= "framework 4"
FT	Misc-difference 113	/note= "wild-type Leu substituted by Val"
XX	WO2003037911-A2.	
XX	08-MAY-2003.	
XX	29-OCT-2002; 2002WO-US034727.	
XX	29-OCT-2001; 2001US-0343306P.	
PR	21-NOV-2001; 2001US-00990586.	
XX	(SUNO-) SUNOL MOLECULAR CORP.	
XX	Jiao J, Wong HC, Nieves EL, Mosquera LA;	
XX	WPI; 2003-468399/44.	
XX	New humanized antibody that binds specifically to human tissue factor,	
PT	useful for in vivo diagnostic methods, or for inhibiting blood	
PT	coagulation or blood clot formation, angiogenesis, tumor metastases or	
PT	inflammation in a mammal.	
XX	Claim 12; Fig 13; 110pp; English.	
XX	The present sequence is the protein sequence of a humanized version, HC-	
CC	05, of the heavy chain variable region (VH) of anti-recombinant human	
CC	tissue factor (TF) mouse-human chimeric antibody CH36. A series of PCR	
CC	mutagenesis steps was used to introduce mutations into the CH36 sequence	
CC	to fully humanize the VH region (see ABR42719-31) and hence for the	
CC	production of an anti-human TF humanized antibody. Humanized antibodies	
CC	of the invention provide superior anticoagulant activity by binding	
CC	native human TF with high affinity and specificity. The antibodies bind	
CC	human TF, either alone or present in a TF:Factor VIIa complex,	
CC	effectively preventing Factor X (or Factor IX) binding to TF or the	
CC	complex, and thereby reducing blood coagulation. The humanized antibodies	
CC	are useful for inhibiting blood coagulation or blood clot formation,	
CC	angiogenesis, tumor metastases or inflammation in a mammal. They are	
CC	also useful as drug carriers, as cytotoxic agents, for reducing TF levels	
CC	in mammals, and for in vivo diagnosis	
XX	Sequence 117 AA;	
XX	Query Match	90.9%; Score 561; DB 6; Length 117;
XX	Best Local Similarity	88.9%; Pred. No. 5.8e-44;
XX	Matches 104; Conservative	8; Mismatches 5; Indels 0; Gaps 0
Qy	1	EIQLOQSGPELVKFGASVQVSKTXGVSFTDYNVYWRQSHGKSLWIGYIDPYNGITLY 60
Db	1	QIQLOQSGPELVKFGASVQVSKTSGYSFTDYNVYWRQSGKLEWIGYIDPYNGITLY 60
Qy	61	DQNFKGATILTVDKSSSTAFPHNLNLSLSDSASVFCARDVTTLDFWQGGTTLTVSS 117
Db	61	DQNFKGATILTVDKSSTAYNELSSLSESDTAVVFCARDVTTLDFWQGGTTLTVSS 117
RESULT 13		
ABR42730		
ID	ABR42730 standard; protein; 117 AA.	
XX	AC	ABR42730;
XX	AC	ABR42730;
XX	26-AUG-2003	(first entry)
XX	Anti-tissue factor humanized antibody VH region HC-09.	

XX Tissue factor; humanization; antibody; anticoagulant; cytostatic;
 KW antiinflammatory; mouse; human.
 XX Mus sp.
 OS Homo sapiens.
 OS Chimeric.
 XX Key
 FT Location/Qualifiers
 FT 1..30
 FT /note= "framework 1"
 FT Misc-difference 1
 FT /note= "wild-type Glu substituted by Gln"
 FT Misc-difference 5
 FT /note= "wild-type Val substituted by Gln"
 FT Misc-difference 19
 FT /note= "wild-type Gln substituted by Arg"
 FT Misc-difference 24
 FT /note= "wild-type Thr substituted by Ala"
 FT Region 31..35
 FT /note= "complementarity determining region 1"
 FT Region 36..49
 FT /note= "framework 2"
 FT Misc-difference 41
 FT /note= "wild-type His substituted by Pro"
 FT Misc-difference 44
 FT /note= "wild-type Ser substituted by Gly"
 FT Region 50..66
 FT /note= "complementarity determining region 2"
 FT Region 67..98
 FT /note= "framework 3"
 FT Misc-difference 76
 FT /note= "wild-type Ser substituted by Thr"
 FT Misc-difference 77
 FT /note= "wild-type Thr substituted by Ser"
 FT Misc-difference 80
 FT /note= "wild-type Phe substituted by Tyr"
 FT Misc-difference 82
 FT /note= "wild-type His substituted by Glu"
 FT Misc-difference 84
 FT /note= "wild-type Asn substituted by Ser"
 FT Misc-difference 87
 FT /note= "wild-type Thr substituted by Arg"
 FT Misc-difference 89
 FT /note= "wild-type Asp substituted by Glu"
 FT Misc-difference 91
 FT /note= "wild-type Ser substituted by Thr"
 FT Region 99..106
 FT /note= "complementarity determining region 3"
 FT Region 107..117
 FT /note= "framework 4"
 FT Misc-difference 113
 FT /note= "wild-type Leu substituted by Val"
 FT WO2003037911-A2.
 PN 08-MAY-2003.
 XX 29-OCT-2002; 2002WO-US034727.
 XX 29-OCT-2001; 2001US-0343306P.
 PR 21-NOV-2001; 2001US-00990586.
 XX (SUNO-) SUNOL MOLECULAR CORP.
 PA Jiao J, Wong HC, Nieves EL, Mosquera LA;
 XX WPI; 2003-468399/44.
 DR New humanized antibody that binds specifically to human tissue factor,
 XX useful for in vivo diagnostic methods, or for inhibiting blood
 PT coagulation or blood clot formation, angiogenesis, tumor metastases or
 PT inflammation in a mammal.

XX Claim 12; Fig 13; 110pp; English.
 XX The present sequence is the protein sequence of a humanized version, HC-09, of the heavy chain variable region (VH) of anti-recombinant human tissue factor (TF) mouse-human chimeric antibody CH36. A series of PCR mutagenesis steps was used to introduce mutations into the CH36 sequence to fully humanize the VH region (see ABR42719-31) and hence for the production of an anti-human TF humanized antibody. Humanized antibodies of the invention provide superior anticoagulant activity by binding CC native human TF with high affinity and specificity. The antibodies bind CC human TF, either alone or present in a TF:Factor VIIa complex, CC effectively preventing Factor X (or Factor IX) binding to TF or the CC complex, and thereby reducing blood coagulation. The humanized antibodies CC are useful for inhibiting blood coagulation or blood clot formation, CC angiogenesis, tumour metastases or inflammation in a mammal. They are CC also useful as drug carriers, as cytotoxic agents, for reducing TF levels CC in mammals, and for in vivo diagnosis
 XX Sequence 117 AA;
 SQ
 Query Match 88.3%; Score 545; DB 6; Length 117;
 Best Local Similarity 86.3%; Pred. No. 1.7e-42;
 Matches 101; Conservative 9; Mismatches 7; Indels 0; Gaps 0;
 QY 1 EIQLQSGPELVKPGASVQVSCNKGYSFTDYNVYVWVROSHGKSLKEMIGYIDPYNGITIY 60
 DB 1 QIQLVQSGPELVKPGASVRSKASGYSFTDYNVYVWVROSPGKLEWIGYIDPYNGITIY 60
 QY 61 DQNFKQKATLTVDKSTTAFMLNSLTSDSAVYFCARDVTTALDFFWGGTTLTVSS 117
 DB 61 DQNFKQKATLTVDKSTTAFMLNSLTSDSAVYFCARDVTTALDFFWGGTTLTVSS 117
 RESULT 14
 ABR42731
 ID ABR42731 standard; protein; 117 AA.
 XX ABR42731;
 AC ABR42731;
 XX 26-AUG-2003 (first entry)
 DT Anti-tissue factor humanized antibody VH region HC-10.
 DE Tissue factor; humanization; antibody; anticoagulant; cytostatic;
 KW antiinflammatory; mouse; human.
 XX Mus sp.
 OS Homo sapiens.
 OS Chimeric.
 XX Key
 FT Location/Qualifiers
 FT 1..30
 FT /note= "framework 1"
 FT Misc-difference 1
 FT /note= "wild-type Glu substituted by Gln"
 FT Misc-difference 5
 FT /note= "wild-type Val substituted by Gln"
 FT Misc-difference 19
 FT /note= "wild-type Gln substituted by Arg"
 FT Misc-difference 24
 FT /note= "wild-type Thr substituted by Ala"
 FT Region 31..35
 FT /note= "complementarity determining region 1"
 FT Region 36..49
 FT /note= "framework 2"
 FT Misc-difference 41
 FT /note= "wild-type His substituted by Pro"
 FT Misc-difference 44
 FT /note= "wild-type Ser substituted by Gly"
 FT Region 50..66
 FT /note= "complementarity determining region 2"
 FT Region 67..98

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FT Misc-difference 76 /note= "framework 3"
FT Misc-difference 77 /note= "wild-type Ser substituted by Thr"
FT Misc-difference 78 /note= "wild-type Thr substituted by Ser"
FT Misc-difference 80 /note= "wild-type Phe substituted by Tyr"
FT Misc-difference 82 /note= "wild-type His substituted by Glu"
FT Misc-difference 84 /note= "wild-type Asn substituted by Ser"
FT Misc-difference 87 /note= "wild-type Thr substituted by Arg"
FT Misc-difference 89 /note= "wild-type Asp substituted by Glu"
FT Misc-difference 91 /note= "wild-type Ser substituted by Thr"
FT Region 99. .106
FT Region 107. .117
FT Misc-difference 113 /note= "framework 4"
FT Misc-difference 115 /note= "wild-type Leu substituted by Val"
FT Misc-difference 115 /note= "wild-type Leu substituted by Val"
XX WO2003037911-A2.
XX 08-MAY-2003.
XX 29-OCT-2002; 2002WO-US034727.
XX 29-OCT-2001; 2001US-0343306P.
XX 21-NOV-2001; 2001US-00990586.
XX (SUNO-) SUNOL MOLECULAR CORP.
XX Jiao J, Wong HC, Nieves EL, Mosquera LA;
XX WPI; 2003-468399/44.
XX New humanized antibody that binds specifically to human tissue factor,
XX useful for in vivo diagnostic methods, or for inhibiting blood
XX coagulation or blood clot formation, angiogenesis, tumor metastases or
XX inflammation in a mammal.
XX Claim 12; Fig 13; 110pp; English.
XX The present sequence is the protein sequence of a humanized version, HC-
XX 10, of the heavy chain variable region (VH) of anti-recombinant human
XX tissue factor (TF) mouse-human chimeric antibody ch36. A series of PCR
XX mutagenesis steps was used to introduce mutations into the ch36 sequence
XX to fully humanize the VH region (see ABR42719-31) and hence for the
XX production of an anti-human TF humanized antibody. Humanized antibodies
XX of the invention provide superior anticoagulant activity by binding
XX native human TF with high affinity and specificity. The antibodies bind
XX human TF, either alone or present in a TF:Factor VIIa complex,
XX effectively preventing Factor X (or Factor IX) binding to TF or the
XX complex, and thereby reducing blood coagulation. The humanized antibodies
XX are useful for inhibiting blood coagulation or blood clot formation,
XX angiogenesis, tumor metastases or inflammation in a mammal. They are
XX also useful as drug carriers, as cytotoxic agents, for reducing TF levels
XX in mammals, and for in vivo diagnosis
XX Sequence 117 AA;
XX Query Match 87.8%; Score 542; DB 6; Length 117;
XX Best Local Similarity 85.5%; Pred. No. 3.3e-42;
XX Matches 100; Conservative 10; Mismatches 7; Indels 0; Gaps 0;
XX 1 ETQLQSGDELVKPGASVQVSKTGYSTFDNVTVVWROSHKSLWIGIDPYNGITY 60
XX :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
XX 1 QIQLVQSGPEVVKPGASVRVSKAGSYSTFDNVTVVWROSPGKLEWIGIDPYNGITY 60
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QY 61 DONPKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGTTLTVSS 117
Db 61 DONPKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGTTLTVSS 117

RESULT 15
ABR42724
ID ABR42724 standard; protein; 117 AA.
XX AC ABR42724;
XX DT 26-AUG-2003 (first entry)
XX DE Anti-tissue factor humanized antibody VH region HC-06.
XX KW Tissue factor; humanization; antibody; anticoagulant; cytostatic;
XX antiinflammatory; mouse; human.
XX OS Mus sp.
XX OS Homo sapiens.
XX OS Chimeric.
XX FH Key Location/Qualifiers
FT Region 1. .30
FT Misc-difference 1 /note= "framework 1"
FT Misc-difference 2 /note= "wild-type Glu substituted by Gln"
FT Misc-difference 9 /note= "wild-type Ile substituted by Met"
FT Misc-difference 19 /note= "wild-type Pro substituted by Gly"
FT Misc-difference 24 /note= "wild-type Gln substituted by Arg"
FT Region 31. .35
FT Region 36. .49
FT Misc-difference 41 /note= "wild-type Thr substituted by Ala"
FT Misc-difference 44 /note= "complementarity determining region 1"
FT Region 50. .66
FT Region 67. .98
FT Misc-difference 76 /note= "framework 3"
FT Misc-difference 77 /note= "wild-type Ser substituted by Thr"
FT Misc-difference 80 /note= "wild-type Thr substituted by Ser"
FT Misc-difference 82 /note= "wild-type Phe substituted by Tyr"
FT Misc-difference 84 /note= "wild-type His substituted by Glu"
FT Misc-difference 87 /note= "wild-type Asn substituted by Ser"
FT Misc-difference 89 /note= "wild-type Thr substituted by Arg"
FT Misc-difference 91 /note= "wild-type Asp substituted by Glu"
FT Region 99. .106
FT Region 107. .117
FT Misc-difference 113 /note= "framework 4"
FT Misc-difference 115 /note= "wild-type Leu substituted by Val"
XX WO2003037911-A2.
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PD 08-MAY-2003.
XX
PF 29-OCT-2002; 2002MO-US034727.
XX
XX 29-OCT-2001; 2001US-0343306P.
PR 21-NOV-2001; 2001US-00990586.
XX
XX (SUNO-) SUNOL MOLECULAR CORP.
PA
XX Jiao J, Wong HC, Nieves EL, Mosquera LA;
PI WPI; 2003-468399/44.
XX
XX New humanized antibody that binds specifically to human tissue factor,
PT useful for in vivo diagnostic methods, or for inhibiting blood
PT coagulation or blood clot formation, angiogenesis, tumor metastases or
PT inflammation in a mammal.
XX
XX Claim 12; Fig 13; 110pp; English.
XX
XX The present sequence is the protein sequence of a humanized version, HC-
CC 06, of the heavy chain variable region (VH) of anti-recombinant human
CC tissue factor (TF) mouse-human chimeric antibody CH36. A series of PCR
CC mutagenesis steps was used to introduce mutations into the CH36 sequence
CC to fully humanize the VH region (see ABR42719-31) and hence for the
CC production of an anti-human TF humanized antibody. Humanized antibodies
CC of the invention provide superior anticoagulant activity by binding
CC native human TF with high affinity and specificity. The antibodies bind
CC human TF, either alone or present in a TF:Factor VIIa complex,
CC effectively preventing Factor X (or Factor IX) binding to TF or the
CC complex, and thereby reducing blood coagulation. The humanized antibodies
CC are useful for inhibiting blood coagulation or blood clot formation,
CC angiogenesis, tumour metastases or inflammation in a mammal. They are
CC also useful as drug carriers, as cytotoxic agents, for reducing TF levels
CC in mammals, and for in vivo diagnosis
XX
SQ Sequence 117 AA;

Query Match 87.5%; Score 540; DB 6; Length 117;
Best Local Similarity 85.5%; Pred. No. 5e-42;
Matches 100; Conservative 10; Mismatches 7; Indels 0; Gaps 0;

QY 1 EIQLQSGGELVKPGASVOVSKYCYSTYDYNVYVRSQSHGKSLWIGYIDPYNGITYY 60
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
1 QMQLQSGGELVKPGASVRVSKASGYSTYDYNVYVRSQSPGKLEWIGYIDPYNGITYY 60

QY 61 DQNFKGKATLTVDKSTTAFMHLNLSLTDSDSAVYFCARDVTTALDFWGGGTTLTVSS 117
Db :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
61 DQNFKGKATLTVDKSTTAFMHLNLSLTDSDSAVYFCARDVTTALDFWGGGTTLTVSS 117

Search completed: April 18, 2006, 13:35:38
Job time : 190 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 18, 2006, 13:39:50 ; Search time 47 Seconds
(without alignments)
205.810 Million cell updates/sec

Title: US-10-764-140-4
Perfect score: 617
Sequence: 1 ETQLQSGELVKPGASVQV.....RDVTALDFWQQTTLTVSS 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5.COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/6.COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/H.COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/PCTUS.COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE.COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfilea1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	616	99.8	117	1	US-08-814-806-4
2	616	99.8	117	2	US-09-293-954-4
3	521.5	84.5	118	2	US-09-847-468-139
4	521.5	84.5	118	2	US-09-847-468-140
5	521.5	84.5	137	2	US-09-647-468-153
6	521.5	84.5	137	2	US-09-647-468-154
7	484.5	78.5	116	1	US-08-273-146-55
8	478.5	77.6	118	2	US-09-847-468-144
9	478.5	77.6	137	2	US-09-847-468-158
10	473.5	76.7	116	1	US-08-672-345C-105
11	473.5	76.7	116	2	US-09-214-095D-90
12	473.5	76.7	116	2	US-09-940-727B-90
13	472	76.5	118	2	US-09-802-083-5
14	469.5	76.1	118	2	US-09-647-468-143
15	469.5	76.1	137	2	US-09-847-468-157
16	469	76.0	301	1	US-08-656-906-25
17	469	76.0	301	2	US-09-217-847-25
18	468.5	75.9	116	1	US-08-672-345C-106
19	467.5	75.8	116	1	US-07-634-278-56
20	467.5	75.8	116	1	US-08-477-728-56
21	467.5	75.8	116	1	US-08-474-040-56
22	467.5	75.8	116	1	US-08-487-200-56
23	467.5	75.8	116	2	US-08-484-537-56
24	467.5	75.8	135	1	US-07-634-278-69
25	467.5	75.8	135	1	US-08-477-728-69
26	467.5	75.8	135	1	US-08-474-040-69
27	467.5	75.8	135	1	US-08-487-200-69

28	467.5	75.8	135	1	US-08-137-117D-27	Sequence 27, Appl
29	467.5	75.8	135	1	US-08-436-717-27	Sequence 27, Appl
30	467.5	75.8	135	2	US-08-484-537-69	Sequence 69, Appl
31	465.5	75.4	116	1	US-08-672-345C-14	Sequence 14, Appl
32	465.5	75.4	116	2	US-09-214-095D-14	Sequence 14, Appl
33	465.5	75.4	116	2	US-09-940-727B-14	Sequence 14, Appl
34	462	74.9	132	2	US-08-434-000A-14	Sequence 14, Appl
35	462	74.9	132	2	US-09-312-157-14	Sequence 14, Appl
36	462	74.9	132	2	US-09-717-888-14	Sequence 14, Appl
37	454	73.6	130	2	US-09-556-605-3	Sequence 3, Appl
38	453.5	73.5	143	2	US-09-301-593-26	Sequence 26, Appl
39	453.5	73.5	472	2	US-09-301-593-30	Sequence 30, Appl
40	451	73.1	264	2	US-10-114-716A-46	Sequence 46, Appl
41	450	72.9	115	1	US-08-672-345C-16	Sequence 16, Appl
42	450	72.9	115	2	US-09-214-095D-16	Sequence 16, Appl
43	450	72.9	115	2	US-09-940-727B-16	Sequence 16, Appl
44	449.5	72.9	297	2	US-09-486-814A-2	Sequence 2, Appl
45	448.5	72.7	453	2	US-09-301-593-18	Sequence 18, Appl

ALIGNMENTS

RESULT 1
US-08-814-806-4
; Sequence 4, Application US/08814806
; Patent No. 5986065
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
; APPLICANT: Jiao, Jin-an
; APPLICANT: Esperanza, Nieves
; APPLICANT: Lawrence, Lupehschen
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; TITLE OF INVENTION: COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dike, Bronstein, Roberts & Cushman, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/814,806
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Corless, Peter F
; REGISTRATION NUMBER: 33,860
; REFERENCE/DOCKET NUMBER: 46943
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:

RESULT 6
US-09-647-468-154
; Sequence 154, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; APPLICANT: ADACHI, HIDEKI
; APPLICANT: YABUTA, NAOHIRO
; TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
; TITLE OF INVENTION: PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
; FILE REFERENCE: 053466/0289
; CURRENT APPLICATION NUMBER: US/09/647,468
; CURRENT FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: PCT/JF99/01768

ADDRESSES: IGEN, INC.
STREET: 1530 East Jefferson St.
CITY: Rockville
STATE: MD
COUNTRY: USA
ZIP: 20852

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
FILING DATE: 14-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ryan, John W.
REGISTRATION NUMBER: 33,771
REFERENCE/DOCKET NUMBER: 09000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-984-8000
TELEFAX: 301-230-0158
INFORMATION FOR SEQ ID NO: 55:
SEQUENCE CHARACTERISTICS:
LENGTH: 116 amino acids
TYPE: amino acid
TOPOLOGY: linear

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; MOLECULE TYPE: protein
US-08-273-146-55

Query Match      78.5%; Score 484.5; DB 1; Length 116;
Best Local Similarity 76.1%; Pred. No. 1.4e-39;
Matches 89; Conservative 15; Mismatches 12; Indels 1; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVVRQSHGKSLWIGYIDPYNGITII 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 QVQLQSGPELVKPGASVKVSKASGYAFNINIVWVKQSHGKSLWIGYIDPYSGGSY 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARDVTTALD-FWGQGTTLTVSS 117
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 61 NQKFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAGG-NPRFAFWGQGTTLTVSS 116
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 8
US-09-647-468-144
; Sequence 144, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; APPLICANT: ADACHI, HIDEKI
; APPLICANT: YABUTA, NAOHIRO
; TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
; TITLE OF INVENTION: PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
; FILE REFERENCE: 053466/0289
; CURRENT APPLICATION NUMBER: US/09/647,468
; CURRENT FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: PCT/JP99/01768
; PRIOR FILING DATE: 1999-04-02
; PRIOR APPLICATION NUMBER: JP 10-91850
; PRIOR FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 144
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Mus sp.
; FEATURE:
; OTHER INFORMATION: Amino acid sequence of H chain V region of anti-TF mouse
; OTHER INFORMATION: monoclonal antibody ATR-8
US-09-647-468-144

Query Match      77.6%; Score 478.5; DB 2; Length 118;
Best Local Similarity 76.3%; Pred. No. 5.5e-39;
Matches 90; Conservative 12; Mismatches 15; Indels 1; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVVRQSHGKSLWIGYIDPYNGITII 60
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Db 1 DIQLQSGPELVKPGASVKVSKASGYSFTDYNIFWVKQSHGKSLWIGYIDPYTGCTG 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARDVTTALD-FWGQGTTLTVSS 117
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 61 NQKFNDKATLTVDKSSSTAFMHLNSLTSDSAVYFCARGFYDYDCYWGQGTFLTVSA 118
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RESULT 9
US-09-647-468-158
; Sequence 158, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; APPLICANT: ADACHI, HIDEKI
; APPLICANT: YABUTA, NAOHIRO
; TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
; TITLE OF INVENTION: PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
; FILE REFERENCE: 053466/0289
; CURRENT APPLICATION NUMBER: US/09/647,468
; CURRENT FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: PCT/JP99/01768
; PRIOR FILING DATE: 1999-04-02
; PRIOR APPLICATION NUMBER: JP 10-91850
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; PRIOR FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 158
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Mus sp.
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: sequence coding for H chain V region of anti-TF
; OTHER INFORMATION: mouse monoclonal antibody ATR-8
US-09-647-468-158

Query Match      77.6%; Score 478.5; DB 2; Length 137;
Best Local Similarity 76.3%; Pred. No. 6.5e-39;
Matches 90; Conservative 12; Mismatches 15; Indels 1; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVVRQSHGKSLWIGYIDPYNGITII 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 20 DIQLQSGPELVKPGASVKVSKASGYSFTDYNIFWVKQSHGKSLWIGYIDPYTGCTG 79
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARDVTTALD-FWGQGTTLTVSS 117
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 80 NQKFNDKATLTVDKSSSTAFMHLNSLTSDSAVYFCARGFYDYDCYWGQGTFLTVSA 137
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||

RESULT 10
US-08-672-345C-105
; Sequence 105, Application US/08672345C
; Patent No. 5948658
; GENERAL INFORMATION:
; APPLICANT: Landry, Donald, W.
; TITLE OF INVENTION: ANTI-COCAINE CATALYTIC ANTIBODY
; NUMBER OF SEQUENCES: 108
; CORRESPONDENCE ADDRESS:
; ADDRESS: Cooper and Dunham LLP
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/672,345C
; FILING DATE: 24-JUN-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 0575/51400
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-278-0400
; TELEFAX: 212-391-0525
; INFORMATION FOR SEQ ID NO: 105:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 116 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-672-345C-105

Query Match      76.7%; Score 473.5; DB 1; Length 116;
Best Local Similarity 75.2%; Pred. No. 1.6e-38;
Matches 88; Conservative 13; Mismatches 15; Indels 1; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCCKTXGYSFTDYNVYVVRQSHGKSLWIGYIDPYNGITII 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db 1 EIHQLQSGPELVKPGASVKLSCKASGYSFTDYNIMYWKQSHGKSLWIGYIDPHNGGIFY 60
   :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
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Db61NQKFNDKATLTVDKSSSTAFMHLNSLTSDSAVYYCARGFYDYDCYWGQGLTVTWSA118

RESULT 15

US-09-647-468-157

Sequence 157, Application US/09647468

Patent No. 6677436

GENERAL INFORMATION:

APPLICANT: SATO KOH

APPLICANT: ADACHI, HIDEKI

APPLICANT: YABUTA, NAOMIRO

TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND

TITLE OF INVENTION: PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY

FILE REFERENCE: 053466/0289

CURRENT APPLICATION NUMBER: US/09/647,468

CURRENT FILING DATE: 2000-09-29

PRIOR APPLICATION NUMBER: PCT/JP99/01768

PRIOR FILING DATE: 1999-04-02

PRIOR APPLICATION NUMBER: JP 10-91850

PRIOR FILING DATE: 1998-04-03

NUMBER OF SEQ ID NOS: 183

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 157

LENGTH: 137

TYPE: PRT

ORGANISM: Mus sp.

FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: Amino acid

OTHER INFORMATION: sequence coding for H chain V region of ant-TF

OTHER INFORMATION: mouse monoclonal antibody ATR-7

US-09-647-468-157

Query Match76.1%; Score 469.5; DB 2; Length 137;

Best Local Similarity74.6%; Pred. No. 4.8e-38;

Matches88; Conservative13; Mismatches16; Indels1; Gaps1;

QY1ETQLQSGPELVKPGASVQVCKTXGYSFTDYNVYVVRQSHGKSLEWIGYIDPYNGITIY60

Db20DIQLQSGPELVKPGSSVKVCKASGYSPFDYNIFFWKQSHGKSLEWIGYIDPYTGTCY79

QY61DNFPGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARDVTTALD-FWGQGTTLTVSS117

Db80NQKFNDKATLTVDKSSSTAFMHLNSLTSDSAVYYCARGFYDYDCYWGQGLTVTWSA137

Search completed: April 18, 2006, 13:41:12

Job time : 48 secs

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 18, 2006, 13:35:55 ; Search time 39 Seconds
(without alignments) 288.650 Million cell up

Title: US-10-764-140-4
Perfect score: 617
Sequence: 1 EIQIQSQSGPELVKPGASVQV.....RDVTTALDFWGGGTTLTVSS 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                  Maximum Match 10%
                  Listing first 45

```

```
Database : PIR_80:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	468.5	75.9	137	2	H32513	Ig heavy chain pre
2	465.5	75.4	139	2	A27609	Ig heavy chain pre
3	463	75.0	117	1	MHWS4E	Ig heavy chain v r
4	463	75.0	140	2	T01407	Ig heavy chain (my
5	461.5	74.8	128	2	I37267	Ig heavy chain v r
6	460	74.6	117	1	MHWSJ5	Ig heavy chain v r
7	452.5	73.3	119	2	F30502	Ig heavy chain v r
8	449	72.8	118	2	PL0200	anti-DNA autoantib
9	448.5	72.7	112	2	S09957	Ig heavy chain V-D
10	448	72.6	117	2	S03305	Ig heavy chain v r
11	446.5	72.4	120	2	A49982	Ig heavy chain v r
12	443	71.8	151	2	PL0011	Ig heavy chain pre
13	441.5	71.6	122	2	E37267	Ig heavy chain V r
14	441.5	71.6	128	2	C37267	Ig heavy chain v r
15	440	71.3	138	2	PH0105	anti-digoxin trans
16	439.5	71.2	135	2	PS0057	Ig heavy chain pre
17	438.5	71.1	114	2	S26319	Ig heavy chain v r
18	438	71.0	119	2	PH0099	Ig heavy chain v r
19	436	70.7	121	2	F37266	Ig heavy chain v r
20	435.5	70.6	469	2	S37483	Ig gamma-2a chain
21	433.5	70.3	118	1	MHWS38	Ig heavy chain v r
22	432	70.0	246	2	S38950	Ig gamma chain - m
23	432	70.0	446	2	S40295	Ig gamma-2a chain
24	429.5	69.6	122	2	PH0887	Ig heavy chain v r
25	429.5	69.6	128	2	A37267	Ig heavy chain v r
26	426.5	69.1	113	2	S55535	Ig heavy chain v r
27	426	69.0	166	2	PL0012	Ig heavy chain pre
28	424	68.9	121	2	C37266	Ig heavy chain v r
29	423.5	68.6	108	2	PH0975	Ig heavy chain v r

ALIGNMENTS

RESULT 1

H32513
 1g heavy chain precursor V region (EXW16) - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 21-May-1990 #sequence_revision 31-Dec-1999
 C/Accession: H32513
 R/Kofler, R.; Strohal, R.; Balderas, R.S.; Johnson
 J. Clin. Invest. 82, 852-860, 1988
 A/Title: Immunoglobulin kappa light chain variable
 A/Reference number: A94689; MUID:88331394; PMID:3
 A/Accession: H32513
 A/Molecule type: DNA
 A/Residues: 1-137 <KOF>
 A/Cross-references: UNIPARC:UPI0000114D9A; GB:M20
 C/Superfamily: immunoglobulin V region; immunoglob
 C/Keywords: heterotetramer; immunoglobulin
 F/34-117/Domain: immunoglobulin homology<IMM>

[illegible]

RESULT 2

A27609
Ig heavy chain precursor V region (I29) - mouse
C:Species: Mus musculus (house mouse)
C>Date: 15-Dec-1988 #sequence_revision 30-Jun-1991 #text_change 23-Jul-1999
C:Accession: A27609
R:Klein, D.; Nietupski, J.; Sirlin, S.; Stavnezer, J.
J. Immunol. 140, 1676-1684, 1988
A:Title: I.29 lymphoma cells express a nonmutated V-H gene before and after H chain switch
A:Reference number: A27609; MUID:98154467; PMID:3126234
A:Accession: A27609
A:Molecule type: DNA
A:Residues: 1-139 <KLE>
A:Cross-references: UNIPARC:UPI0000114DSD; EMBL:M19401; NID:g195441; PIDN:AAA38303.1; P
C:Genetics:
A:Introns: 16/1
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotrimer; immunoglobulin
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-139/Product: Ig heavy chain V region I29 #status predicted <VAR>
F:34-117/Domain: immunoglobulin homology <IMW>


```

Query Match          75.4%; Score 465.5; DB 2; Length 139;
Best Local Similarity   72.5%; Pred. No. 2.4e-35;
Matches      87; Conservative    18; Mismatches     12; Indels       3; Gaps        1;

QY  1 EIQLQQSGPGLVPGASVQVSCKTXGYSFTDYNVVVRQSFGKSLSEWIGVIDPYNGITTY 60
    |:|::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db  20 EVLQQGGPELVPGASVKMSCKASGYTFDYVMHWKVQSKSLEWIGNYPNDYTSS 79
    :|::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
QY  61 DQNPKKGATLTVDKSSTTAPMHLNSLTSDDSAVFCAFCAR---DVTTALDFWGQGTLTVSS 117
    ::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db  80 NQRFKGKATLTVDKSSSTAYMLNLSLTSDDSVAVCARYCYARSYYANDYGQGTSTVTSS 139
    :|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

RESULT 3
MHMS4E
IG heavy chain V region (MOPC 104E) - mouse (tentative sequence)
C/Species: Mus musculus (house mouse)
C/Date: 30-Nov-1979 #sequence_revision 14-Nov-1983 #text_change 09-Jul-2004
C/Accession: A02039
R/Kehry, M.R.; Fuhrman, J.S.; Schilling, J.W.; Rogers, J.; Sibley, C.H.; Hood, L.E.
Biochemistry 21, 5415-5424, 1982
A>Title: Complete amino acid sequence of a mouse mu chain: homology among heavy chain ccd
A/Reference number: A02039; PMID:83075344; PMID:6816276
A/Accession: A02039
A/Molecule type: protein
A/Residues: 1-117 <MEH>
A/Cross-references: UNIPROT:P01756; UNIPARC:UIPO0000270F1
C/Comment: The glycosylated asparagine residue does not have the usual N-X-S/T context at F/22-96/Disulfide bonds: #statust predicted
F/22-96/Dysulfide bonds: #status atypical
F/55/Binding site: carbohydrate (Asn) (covalent) #status atypical

Query Match          75.0%; Score 463; DB 1; Length 117;
Best Local Similarity   74.4%; Pred. No. 3.4e-35;
Matches      87; Conservative    13; Mismatches     17; Indels       0; Gaps        0;

QY  1 EIQLQQSGPGLVPGASVQVSCKTXGYSFTDYNVVVRQSFGKSLSEWIGVIDPYNGITTY 60
    |:|::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db  1 EVLQQGGPELVPGASVKMSCKASGYTFDYMKWKVKQSHGSKEWIGINPNNGTSS 60
    -:|::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
QY  61 DQNPKKGATLTVDKSSTTAPMHLNSLTSDDSAVFCAFCARDVTTALTDFWGQQTLLTVSS 117
    :-|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
Db  61 NQRFKGKATLTVDKSSSTAYMLNLSLTSDDSVAVCARYCARDYFDWMAGCTTTVTSS 117
    :-|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||

RESULT 4
TO1407
IG heavy chain (myeloma M104E) - mouse (fragment)
C/Species: Mus sp. (mouse)
C/Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 20-Jun-2000
C/Accession: T01407
R/Takahashi, S.; Matsura, Y.; Taniguchi, T.; Tamura, H.; Bito, S.; Onishi, S.; Yamamoto, K.
Microbiol. Immunol. 36, 855-863, 1992
A>Title: Molecular analysis of immunoglobulin heavy chain genes coding for idiotypic and
A/Reference number: Z14317; PMID:93116638; PMID:1474935
A/Accession: T01407
A>Status: translated from GB/EMBL/DDBJ
A/Molecule type: mRNA
A/Residues: 1-140 <TAU>
A/Cross-references: UNIPARC:UIPO00011B29E; EMBL:S51851; NID:g262657
C/Superfamily: immunoglobulin v region; immunoglobulin homology

Query Match          74.4%; Score 463; DB 2; Length 140;
Best Local Similarity   74.4%; Pred. No. 4.1e-35;
Matches      87; Conservative    13; Mismatches     17; Indels       0; Gaps        0;

QY  1 EIQLQQSGPGLVPGASVQVSCKTXGYSFTDYNVVVRQSFGKSLSEWIGVIDPYNGITY 60
    |:~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||
Db  20 EVOLQQSGPLVPGLSVKMCSKASGYTFDYVMKWVKQSHGSKEWIGINPNNGTSS 79
    :|~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~||~::~
```

Qy 61 DQNFKGKATLTVDKSGTTTAFMHLNSLTSDSASVYFCARDVTTALDFWQGQTTTLTVSS 117
:
Db 80 NQKFKGKATLTVDKSSSTAYMQLNSLTSEDASVYVCARDVDWYVWGAGTTTVSS 136

RESULT 5

I37267
Ig heavy chain V region (129) - mouse
C:Species: Mus musculus (house mouse)
C:Date: 18-Oct-1991 #sequence_revision 18-Oct-1991 #text_change 16-Aug-1996
C:Accession: I37267
R:Ruff-Jamison, S.; Campos-Gonzalez, R.; Glenney Jr., J.R.
J. Biol. Chem. 266, 6607-6613, 1991
A:Title: Heavy and light chain variable region sequences and antibody properties
A:Reference number: A38740; MUID:91177923; PMID:1706720
A:Accession: I37267
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-128 <RUF>
A:Cross-references: UNIPARC:UPI0000176C52
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:19-102/Domain: immunoglobulin homology <IMM>

Query Match 74.8%; Score 461.5; DB 2; Length 128;
Best Local Similarity 71.5%; Pred. No. 5.1e-35;
Matches 88; Conservative 17; Mismatches 11; Indels 7; Gaps

Qy 2 IQLQQSGPELVKPGASVQVSKTXGYSFTDYNVYVWQSHGKSLWIGYIDPVGITIVD
:
Db 6 VQLQQSGPELVKPGASVKISKTSGYFTETMHWVWQSHGKSLWIGGINPNNGTSYN
:
Qy 62 QNFKGKATLTVDKSGTTTAFMHLNSLTSDSASVYFCA-RDVTTL-----DFWQGQTTTL
:
Db 66 QKFKGKATLTVDKSSSTAYMELSLTSEDASVYFCARRGLTTTVAKSYFYDYWGQGTTLT
:
Qy 115 VSS 117
|||
Db 126 VSS 128

RESULT 6

HM535
Ig heavy chain V region (J558) - mouse (tentative sequence)
C:Species: Mus musculus (house mouse)
C:Date: 30-Jun-1991 #sequence_revision 30-Jun-1991 #text_change 09-Jul-2004
C:Accession: A26242
R:Schilling, J.; Clevinger, B.; Davie, J.M.; Hood, L.
Nature 283, 35-40, 1980
A:Title: Amino acid sequence of homogeneous antibodies to dextran and DNA
A:Reference number: A26242; MUID:80078170; PMID:6765983
A:Accession: A26242
A:Molecule type: protein
A:Residues: 1-117 <SCH>
A:Cross-references: UNIPROT:P01757; UNIPARC:UPI00000270F2
A:Note: the sequences of 10 hybridoma proteins that also bind dextran differ
C:Comment: This protein binds dextran.
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; hybridoma; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>
F:22-96/Disulfide bonds: #status predicted

Query Match 74.6%; Score 460; DB 1; Length 117;
Best Local Similarity 74.4%; Pred. No. 6.3e-35;
Matches 87; Conservative 13; Mismatches 17; Indels 0; Gaps

Qy 1 EQLQQSGPELVKPGASVQVSKTXGYSFTDYNVYVWQSHGKSLWIGYIDPVGITIV
:
Db 1 EVQLQQSGPELVKPGASVWMSCKASGYFTDYNKWKVQSHGKSLWIGDINPNNGTSY
:
Qy 61 DQNFKGKATLTVDKSGTTTAFMHLNSLTSDSASVYFCARDVTTALDFWQGQTTTLTVSS 117
:
Db 80 NQKFKGKATLTVDKSSSTAYMQLNSLTSEDASVYVCARDVDWYVWGAGTTTVSS 136

Db 61 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 117

RESULT 7
F30502
Ig heavy chain V region (A52) - mouse
C:Species: Mus musculus (house mouse)
C:Date: 03-Nov-1988 #sequence_revision 03-Nov-1988 #text_change 21-Jan-2000
C:Accession: F30502
R:Ellat, D.; Webster, D.M.; Rees, A.R.
J. Immunol. 141, 1745-1753, 1988
A:Title: V region sequences of anti-DNA and anti-RNA autoantibodies from NZB/NZW F-1 mice
A:Reference number: A30502; MUID:88315787; PMID:2457627
A:Accession: F30502
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-119 <EIL>
A:Cross-references: UNIPARC:UPI0000176B33
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 73.1%; Score 452.5; DB 2; Length 119;
Best Local Similarity 73.1%; Pred. No. 3.1e-34;
Matches 87; Conservative 12; Mismatches 17; Indels 3; Gaps 1;

QY 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
DB 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 116
DB 61 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 119

RESULT 8
PL0200
anti-DNA autoantibody BV16-19, heavy chain V region - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 20-Feb-1995 #sequence_revision 20-Feb-1995 #text_change 21-Jan-2000
C:Accession: PL0200
R:Smith, R.G.; Voss Jr., E.W.
Mol. Immunol. 27, 463-470, 1990
A:Title: Variable region primary structures of monoclonal anti-DNA autoantibodies from NZB mice
A:Reference number: PL0198; MUID:90309768; PMID:2114528
A:Accession: PL0200
A:Molecule type: mRNA
A:Residues: 1-118 <SMI>
A:Cross-references: UNIPARC:UPI0000113784; GB:X53641; NID:G50193; PIDN:CAA37692.1; PID:G50193
C:Superfamily: immunoglobulin V region; immunoglobulin homology
F:15-98/Domain: immunoglobulin homology <IMM>
F:31-35/Region: complementarity-determining 1
F:50-66/Region: complementarity-determining 2
F:99-110/Region: complementarity-determining 3
F:99-106/Region: D region
F:107-118/Region: JH region

Query Match 72.8%; Score 449; DB 2; Length 118;
Best Local Similarity 72.0%; Pred. No. 6.3e-34;
Matches 85; Conservative 14; Mismatches 15; Indels 4; Gaps 1;

QY 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
DB 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 114
DB 61 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 118

RESULT 9
S09957
Ig heavy chain V-D-J region (106-10E) - mouse (fragment)

C:Species: Mus musculus (house mouse)
C:Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_change 23-Jul-1999
C:Accession: S09957
R:Reininger, L.; Shibata, T.; Ozaki, S.; Shirai, T.; Jaton, J.C.; Izui, S.
Eur. J. Immunol. 20, 771-777, 1990
A:Title: Variable region sequences of pathogenic anti-mouse red blood cell autoantibodies
A:Reference number: S09955; MUID:90269328; PMID:2347362
A:Accession: S09957
A:Molecule type: mRNA
A:Residues: 1-112 <REI>
A:Cross-references: UNIPARC:UPI0000115E5C; EMBL:X51845; NID:G55244; PIDN:CAA36138.1; PI:21845
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 72.7%; Score 448.5; DB 2; Length 112;
Best Local Similarity 72.6%; Pred. No. 6.7e-34;
Matches 85; Conservative 14; Mismatches 13; Indels 5; Gaps 1;

QY 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
DB 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 117
DB 61 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 112

RESULT 10
S03305
Ig heavy chain V region (8B12) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 23-Jul-1999
C:Accession: JLO044; S05276; S03305
R:Van Cleave, V.H.; Naeve, C.W.; Metzger, D.W.
J. Exp. Med. 167, 1841-1848, 1988
A:Title: Do antibodies recognize amino acid side chains of protein antigens independent of carbohydrate
A:Reference number: JLO043; MUID:88258372; PMID:2455014
A:Accession: JLO044
A:Molecule type: mRNA
A:Residues: 1-117 <VAN>
A:Cross-references: UNIPARC:UPI0000176B56; EMBL:X12381
R:Metzger, D.W.
submitted to the EMBL Data Library, July 1988
A:Reference number: S05276
A:Accession: S05276
A:Molecule type: mRNA
A:Residues: 1-116, 'T' <MET>
A:Cross-references: UNIPARC:UPI0000115DB3; EMBL:X12381; NID:G52094; PIDN:CAA30939.1; PI:1515
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 72.6%; Score 448; DB 2; Length 117;
Best Local Similarity 72.6%; Pred. No. 7.7e-34;
Matches 85; Conservative 10; Mismatches 22; Indels 0; Gaps 0;

QY 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
DB 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVYVWROSHGKSLWIGYIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 117
DB 61 SQKFKGKATLTVDKSSSTAYMQLNSLTSDSAVYFCARDVYFDVWGAGTTTVSS 117

RESULT 11
A49982
Ig heavy chain V region (BA7.1) - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 10-Nov-1995 #sequence_revision 10-Nov-1995 #text_change 21-Jan-2000
C:Accession: A49982
R:Lin, C.; Kieber-Emmons, T.; Villalobos, A.P.; Foster, M.H.; Wahlgren, C.; Kleyman, T.

```
J. Biol. Chem. 269, 2805-2813, 1994
A>Title: Topology of an amiloride-binding protein.
A|Reference number: A49982; MUID:94132051; PMID:8300613
A|Accession: A49982
A|Status: preliminary
A|Molecule type: mRNA
A|Residues: 1-120 <LIN>
A|Cross-references: UNIPARC:UPI0000114AA4; GB:L24802; NID:G452096; PIDN:AAA98740.1; PID:
C|Superfamily: immunoglobulin V region; immunoglobulin homology
C|Keywords: heterotetramer; immunoglobulin
F|15-98/Domain: immunoglobulin homology <IMM>
```

	Query Match	72.4%	Score 446.5	DB 2	Length 120
	Best Local Similarity	68.9%	Pred. No. 1.1e-33		
	Matches	84	Conservative 18	Mismatches 13	Indels 7
		Gaps 2			
Qy	1	EIQLOQGPELVKPGASVOVSCKTXYGSFTDNYVYWRQSHGKSLEWIGVIDPYNGITIY	60		
Dd	1	EVQLQQSGPELVKPGASVKISCKASGYSTGYIHVYKQSHVKSLEWIGHISPYNQATTY	60		
Qy	61	DQNPKGRATILVDKSSITAFVGHNLNSLTDSDSVAVFCAK-----DVVTALDFWGQGTTLTV	115		
Dd	61	NQNFKDTSATILVDKSSITSAYNELHSLTSEDSVAIVYCARYFNYYGHYT--MDYWGQGTSTVV	118		
Qy	116	SS 117			
Dd	119	SS 120			

C:Accession: E37267
E:Ruff-Jamison, S.; Campos-Gonzalez, R.; Glenney Jr., J.R.
J. Biol. Chem. 266, 6607-6613, 1991
A:Title: Heavy and light chain variable region sequences and antibody properties of anti-
A:Reference number: A38740; MUID:91177923; PMID:1706720
A:Accession: E37267
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: mRNA
A:Cross-references: UNIPARC:UPI0000176B3C
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:19-102/Domain: immunoglobulin homology <IMM>

Query Match 71.6%; Score 441.5; DB 2; Length 122;
Best Local Similarity 69.7%; Pred. No. 3.1e-33;
Matches 83; Conservative 20; Mismatches 11; Indels 5; Gaps 2;

Qy 2 IQLQSGPELVKPGASVQVSKTGYSFTDYNVYVRQSHGKSLWIGYIDPYNGITIYD 61
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 6 VQLQSGPELVKPGASVKISKCTFGYTFTEYTHMKQSHGKSLWIGINPNTGGTINN 65
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 62 QNFKGKATLTVDKSSSTTAFHNLNSLTSDSAVYFCA---RDVTTALDFWGGTTLTVSS 117
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 66 QKFRGKATLTVDKSSSTAYMELRSLTSDSAVYFCARRGREYT--MDYWGQGTSTVTSS 122
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 14

C37267
Ig heavy chain V region (Py69) - mouse
C:Species: Mus musculus (house mouse)
C:Date: 18-Oct-1991 #sequence_revision 18-Oct-1991 #text_change 21-Jan-2000
C:Accession: C37267
E:Ruff-Jamison, S.; Campos-Gonzalez, R.; Glenney Jr., J.R.
J. Biol. Chem. 266, 6607-6613, 1991
A:Title: Heavy and light chain variable region sequences and antibody properties of anti-
A:Reference number: A38740; MUID:91177923; PMID:1706720
A:Accession: C37267
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 1-128 <RUF>
A:Cross-references: UNIPARC:UPI0000176B3A
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:19-102/Domain: immunoglobulin homology <IMM>

Query Match 71.6%; Score 441.5; DB 2; Length 128;
Best Local Similarity 66.7%; Pred. No. 3.3e-33;
Matches 82; Conservative 19; Mismatches 15; Indels 7; Gaps 1;

Qy 2 IQLQSGPELVKPGASVQVSKTGYSFTDYNVYVRQSHGKSLWIGYIDPYNGITIYD 61
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Db 6 VQLQSGPELVKPGASVKISKCTFGYTFTEYTHMKQSHGKSLWIGINPNTGGTINN 65
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 62 QNFKGKATLTVDKSSSTTAFHNLNSLTSDSAVYFCARD-----VTTALDFWGGTTLT 114
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 66 QKFRGKATLTVDKSSSTAYMELRSLTSDSAVYFCARRGPYGNYYTSYFYDWGGTTLT 125
:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Qy 115 VSS 117
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Db 126 VSS 128
|||

RESULT 15

PH0105
anti-digoxin transfectoma antibody light chain V region precursor - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 21-Jul-2000
C:Accession: PH0105
E:Near, R.I.; Ng, S.C.; Mudgett-Hunter, M.; Hudson, N.W.; Margolies, M.N.; Seidman, J.G.
Mol. Immunol. 27, 901-909, 1990
A:Title: Heavy and light chain contributions to antigen binding in an anti-digoxin chain
A:Reference number: PH0105; MUID:91015092; PMID:2120577

Search completed: April 18, 2006, 13:40:18
Job time : 40 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: April 18, 2006, 13:40:31 ; Search time 165 Seconds
(without alignments)
296.279 Million cell updates/sec

Title: US-10-764-140-4
 Perfect score: 617
 Sequence: 1 ETQLQQSGBELVKPGASVQV.....RDVTTALDFWGGGTTLTSS 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

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Minimum DB seq length: 0
Maximum DB seq length: 200
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Database : Published Applications_AA_Main.*
1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pcp.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pcp.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pcp.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pcp.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pcp.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pcp.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	617	100.0	117	3	US-09-990-586-4	Sequence 4, Appli
2	617	100.0	117	4	US-10-310-113-4	Sequence 4, Appli
3	617	100.0	117	4	US-10-230-880-4	Sequence 4, Appli
4	616	99.8	117	3	US-09-293-854-4	Sequence 4, Appli
5	616	99.8	117	4	US-10-293-417-4	Sequence 4, Appli
6	616	99.8	117	5	US-10-764-140-4	Sequence 4, Appli
7	616	99.8	117	5	US-10-618-338-4	Sequence 4, Appli
8	521.5	84.5	118	4	US-10-462-062-139	Sequence 139, App
9	521.5	84.5	118	4	US-10-462-062-140	Sequence 140, App
10	521.5	84.5	137	4	US-10-462-062-153	Sequence 153, App
11	521.5	84.5	137	4	US-10-462-062-154	Sequence 154, App
12	511.5	82.9	120	4	US-10-372-719-2	Sequence 2, Appli
13	511.5	82.9	120	5	US-10-505-747-2	Sequence 2, Appli
14	493	78.9	119	4	US-10-223-880-2	Sequence 2, Appli
15	492	79.7	117	4	US-10-774-076-2	Sequence 2, Appli
16	492	79.7	138	4	US-10-774-076-9	Sequence 9, Appli
17	487	78.9	113	3	US-09-924-099-2	Sequence 2, Appli
18	487	78.9	236	5	US-10-879-994-6	Sequence 6, Appli
19	487	78.9	236	5	US-10-610-452-6	Sequence 6, Appli
20	487	78.9	237	3	US-09-924-099-9	Sequence 9, Appli
21	487	78.9	243	3	US-09-924-099-10	Sequence 10, Appl
22	479.5	77.7	467	5	US-10-500-696-2	Sequence 2, Appli
23	478.5	77.6	118	4	US-10-462-062-144	Sequence 144, App
24	478.5	77.6	137	4	US-10-462-062-158	Sequence 158, App
25	474.5	76.9	214	5	US-10-488-074-69	Sequence 69, Appl
26	473.5	76.7	116	3	US-09-940-727B-90	Sequence 90, Appl
27	472	76.5	118	3	US-09-803-083-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1

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US-09-990-586-4
; Sequence 4, Application US/09990586
; Publication No. US20030109680A1
; GENERAL INFORMATION:
; APPLICANT: JIAO, JIN-AN
; APPLICANT: WONG, HING C.
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; FILE REFERENCE: 71758/46943-CIP2
; CURRENT APPLICATION NUMBER: US/09/990,586
; CURRENT FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-990-586-4

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	Query Match	100.0%	Score 617;	DB 3;	Length 117;
	Best Local Similarity	99.1%	Pred. No. 4.7e-52;		
	Matches 116;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Oy	1	EQIQSQSPELVKPGASVQVSCXGXVSFTDYNVYVVRQSHGKSL	EWITGYIDPYNGIT	Y 60	
Ddb	1	EQIQSQSPELVKPGASVQVSCXGXVSFTDYNVYVVRQSHGKSL	EWITGYIDPYNGIT	Y 60	
Oy	61	DNFPGKATLTVDKSSITTAFLHLSLNSLSDSDSAVFCARDVT	TALD	DFCQGTTLT	VSS 117
Ddb	61	DNFPGKATLTVDKSSITTAFLHLSLNSLSDSDSAVFCARDVT	TALD	DFCQGTTLT	VSS 117

RESULT 2

US-10-310-113-4
 ; Sequence 4, Application US/10310113
 ; Publication No. US20030176664A1
 ; GENERAL INFORMATION:
 ; APPLICANT: JIAO, JIN-AN
 ; APPLICANT: WONG, HING C.
 ; APPLICANT: NIEVES, ESPERANZA LILIANA
 ; APPLICANT: MOSQUERA, LUIS A.
 ; TITLE OF INVENTION: USE OF ANTI-TISSUE FACTOR ANTIBODIES FOR TREATING
 ; TITLE OF INVENTION: THROMBOSES
 ; FILE REFERENCE: 58122 (71758)
 ; CURRENT APPLICATION NUMBER: US/10/310,113
 ; CURRENT FILING DATE: 2002-12-04
 ; PRIOR APPLICATION NUMBER: 09/990,586

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; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/343,306
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: 08/814,806
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Murine sp.
US-10-310-113-4

Query Match      100.0%; Score 617; DB 4; Length 117;
Best Local Similarity 99.1%; Pred. No. 4.7e-52;
Matches 116; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVWVRQSHGKSLWIGYIDPYNGITIY 60
Db 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVWVRQSHGKSLWIGYIDPYNGITIY 60

Qy 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDDSAVYFCARDVTTALDFWGGTTLTVSS 117
Db 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDDSAVYFCARDVTTALDFWGGTTLTVSS 117

RESULT 3
US-10-230-880-4
; Sequence 4, Application US/10230880
; Publication No. US20030190705A1
; GENERAL INFORMATION:
; APPLICANT: WONG, HING C.
; APPLICANT: STINSON, JEFFREY L.
; TITLE OF INVENTION: METHOD OF HUMANIZING IMMUNE SYSTEM MOLECULES
; FILE REFERENCE: 71758/58066
; CURRENT APPLICATION NUMBER: US/10/230,880
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 09/990,586
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/343,306
; PRIOR FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 174
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-230-880-4

Query Match      100.0%; Score 617; DB 4; Length 117;
Best Local Similarity 99.1%; Pred. No. 4.7e-52;
Matches 116; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVWVRQSHGKSLWIGYIDPYNGITIY 60
Db 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVWVRQSHGKSLWIGYIDPYNGITIY 60

Qy 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDDSAVYFCARDVTTALDFWGGTTLTVSS 117
Db 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDDSAVYFCARDVTTALDFWGGTTLTVSS 117

RESULT 4
US-09-293-854-4
; Sequence 4, Application US/09293854
; Patent No. US20020168357A1
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
```

```
; Jiao, Jin-an
; Esperanza, Nieves
; Lawrence, Lupechen
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dike, Bronstein, Roberts & Cushman, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/293,854
; FILING DATE: 16-Apr-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/814,806
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Corless, Peter F
; REGISTRATION NUMBER: 33,860
; REFERENCE/DOCKET NUMBER: 46943
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-293-854-4

Query Match      99.8%; Score 616; DB 3; Length 117;
Best Local Similarity 100.0%; Pred. No. 5.9e-52;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVWVRQSHGKSLWIGYIDPYNGITIY 60
Db 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVWVRQSHGKSLWIGYIDPYNGITIY 60

Qy 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDDSAVYFCARDVTTALDFWGGTTLTVSS 117
Db 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDDSAVYFCARDVTTALDFWGGTTLTVSS 117

RESULT 5
US-10-293-417-4
; Sequence 4, Application US/10293417
; Publication No. US20030082636A1
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
; Jiao, Jin-an
; Esperanza, Nieves
; Lawrence, Lupechen
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
```


ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 WATER STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ VERSION 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/293,417
FILING DATE: 12-NOV-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/293,854
FILING DATE: 16-APR-1999
APPLICATION NUMBER: 08/814,806
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: CORLESS, PETER F
REGISTRATION NUMBER: 33,860
REFERENCE/DOCKET NUMBER: 46943
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-293-417-4

Query Match 99.8%; Score 616; DB 4; Length 117;
Best Local Similarity 100.0%; Pred. No. 5.9e-52;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EIQLOQSGPELVKPGASVQVCKTGYSTFDYVWVROSHGKSLWIGYIDPYNGITY 60
DB 1 EIQLOQSGPELVKPGASVQVCKTGYSTFDYVWVROSHGKSLWIGYIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTSS 117
DB 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTSS 117

RESULT 6
US-10-764-140-4
Sequence 4, Application US/10764140
Publication No. US20040229282A1
GENERAL INFORMATION:
APPLICANT: WONG, HING C.
ATTORNEY/AGENT INFORMATION:
NAME: JIAO, JIN-AN
REGISTRATION NUMBER: 33,860
REFERENCE/DOCKET NUMBER: 46943
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 4
LENGTH: 117
TYPE: PRT
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: MOD_RES
LOCATION: (25)
OTHER INFORMATION: Variable amino acid
US-10-764-140-4
Query Match 99.8%; Score 616; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 5.9e-52;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EIQLOQSGPELVKPGASVQVCKTGYSTFDYVWVROSHGKSLWIGYIDPYNGITY 60
DB 1 EIQLOQSGPELVKPGASVQVCKTGYSTFDYVWVROSHGKSLWIGYIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTSS 117
DB 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSAVYFCARDVTTALDFWGGGTTLTSS 117
RESULT 7
US-10-618-338-4
Sequence 4, Application US/10618338
Publication No. US20050089929A1
GENERAL INFORMATION:
APPLICANT: WONG, HING C.
JIAO, JIN-AN
ESPERANZA, NIEVES
LAWRENCE, LUEPSCHEN
TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
COAGULATION AND METHODS OF USE THEREOF
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
STREET: 130 WATER STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ VERSION 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/618,338
FILING DATE: 11-JUL-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/293,854
FILING DATE: 16-APR-1999
APPLICATION NUMBER: 08/814,806
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: CORLESS, PETER F
REGISTRATION NUMBER: 33,860
REFERENCE/DOCKET NUMBER: 46943
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide

```
;
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-618-338-4

Query Match          99.8%; Score 616; DB 5; Length 117;
Best Local Similarity 100.0%; Pred. No. 5.9e-52; Indels 0; Gaps 0;
Matches 117; Conservative 0; Mismatches 0;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVRQSHGKSLIEWIGYIDPYNGITIY 60
Db 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVRQSHGKSLIEWIGYIDPYNGITIY 60

QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR-DVTTALDFWGGTTLTVSS 117
Db 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARDVTTALDFWGGTTLTVSS 117

RESULT 8
US-10-462-062-139
; Sequence 139, Application US/10462062
; Publication No. US20040044187A1
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
; FILE REFERENCE: 053466-0360
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/JP99/01768
; PRIOR FILING DATE: 1999-04-02
; PRIOR APPLICATION NUMBER: JP 10-91850
; PRIOR FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 139
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Amino acid sequence of
; OTHER INFORMATION: H chain V region of anti TF mouse monoclonal antibody ATR-2
US-10-462-062-139

Query Match          84.5%; Score 521.5; DB 4; Length 118;
Best Local Similarity 83.9%; Pred. No. 8.6e-43; Indels 1; Gaps 1;
Matches 99; Conservative 8; Mismatches 10;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVRQSHGKSLIEWIGYIDPYNGITIY 60
Db 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVRQSHGKSLIEWIGYIDPYNGITIY 60

QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR-DVTTALDFWGGTTLTVSS 117
Db 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARDVTTALDFWGGTTLTVSS 117

RESULT 9
US-10-462-062-140
; Sequence 140, Application US/10462062
; Publication No. US20040044187A1
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
; FILE REFERENCE: 053466-0360
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/JP99/01768
; PRIOR FILING DATE: 1999-04-02
; PRIOR APPLICATION NUMBER: JP 10-91850
; PRIOR FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 139
; LENGTH: 118
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Full-length amino acid
; OTHER INFORMATION: sequence for H chain V region of anti-TF mouse monoclonal
; OTHER INFORMATION: antibody ATR-2
US-10-462-062-140

Query Match          84.5%; Score 521.5; DB 4; Length 137;
Best Local Similarity 83.9%; Pred. No. 1e-42; Indels 1; Gaps 1;
Matches 99; Conservative 8; Mismatches 10;

QY 1 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVRQSHGKSLIEWIGYIDPYNGITIY 60
Db 20 EIQLQSGPELVKPGASVQVSKTXGYSFTDYNVYVRQSHGKSLIEWIGYIDPYNGITIY 79

QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR-DVTTALDFWGGTTLTVSS 117
Db 80 NQKFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR-DVTTALDFWGGTTLTVSS 137

RESULT 11
US-10-462-062-154
; Sequence 154, Application US/10462062
; Publication No. US20040044187A1
; GENERAL INFORMATION:
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; APPLICANT: SATO, KOH
; APPLICANT: ADACHI, HIDSKI
; TITLE OF INVENTION: HUMANIZED ANTIBODIES AGAINST HUMAN TISSUE FACTOR (TF)
; FILE REFERENCE: 053466-0360
; CURRENT APPLICATION NUMBER: US/10/462,062
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: PCT/JP99/01768
; PRIOR FILING DATE: 1999-04-02
; PRIOR APPLICATION NUMBER: JP 10-91850
; PRIOR FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 154
; LENGTH: 137
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Full-length amino acid
; OTHER INFORMATION: sequence for H chain V region of anti-TF mouse monoclonal
; OTHER INFORMATION: antibody ATR-3
US-10-462-062-154

Query Match 84.5%; Score 521.5; DB 4; Length 137;
Best Local Similarity 83.9%; Pred. No. 1e-42; Indels 1; Gaps 1;
Matches 99; Conservative 8; Mismatches 10; Indels 1; Gaps 1;
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Db 20 EIQLQSGPELVKPGASVQVSCVCKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITIY 79
QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR-DVTTALDFWGGGTTLTVSS 117
Db 80 NQKFGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARGEGYFYFYWGQTTLTVSS 137

RESULT 12
US-10-372-719-2
; Sequence 2, Application US/10372719
; Publication No. US20040005643A1
; GENERAL INFORMATION:
; APPLICANT: DE SANTIS, RITA
; APPLICANT: ANASTASI, ANNA MARIA
; TITLE OF INVENTION: ANTI-HUMAN TENASCIN MONOCLONAL ANTIBODY
; FILE REFERENCE: 2818-141
; CURRENT APPLICATION NUMBER: US/10/372,719
; PRIOR FILING DATE: 2003-02-25
; PRIOR APPLICATION NUMBER: 60/359,299
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: ST2146 heavy chain variable region protein sequence
US-10-372-719-2

Query Match 82.9%; Score 511.5; DB 4; Length 120;
Best Local Similarity 76.7%; Pred. No. 8.2e-42; Indels 3; Gaps 1;
Matches 92; Conservative 17; Mismatches 8; Indels 3; Gaps 1;
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Db 1 KVKLQSGPELVKPGASVQVSCVCKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGVTSY 60
QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR---DVTTALDFWGGGTTLTVSS 117
Db 61 NQKFGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARGGSIYYAMDYWGQTTTVSS 120

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US-10-505-747-2
; Sequence 2, Application US/10505747
; Publication No. US20050106145A1
; GENERAL INFORMATION:
; APPLICANT: DE SANTIS, RITA
; APPLICANT: ANASTASI, ANNA MARIA
; TITLE OF INVENTION: ANTI-HUMAN TENASCIN MONOCLONAL ANTIBODY
; FILE REFERENCE: 2818-141
; CURRENT APPLICATION NUMBER: US/10/505,747
; CURRENT FILING DATE: 2004-08-25
; PRIOR APPLICATION NUMBER: 60/359,299
; PRIOR FILING DATE: 2002-02-26
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: ST2146 heavy chain variable region protein sequence
US-10-505-747-2

Query Match 82.9%; Score 511.5; DB 5; Length 120;
Best Local Similarity 76.7%; Pred. No. 8.2e-42; Indels 3; Gaps 1;
Matches 92; Conservative 17; Mismatches 8; Indels 3; Gaps 1;
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Db 1 KVKLQSGPELVKPGASVQVSCVCKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGVTSY 60
QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR---DVTTALDFWGGGTTLTVSS 117
Db 61 NQKFGKATLTVDKSSSTAFMHLNSLTSDSAVYFCARGGSIYYAMDYWGQTTTVSS 120

RESULT 14
US-10-223-880-2
; Sequence 2, Application US/10223880
; Publication No. US20030152571A1
; GENERAL INFORMATION:
; APPLICANT: JONAK, ZDENKA
; APPLICANT: JOHANSON, KYUNG O.
; APPLICANT: TAYLOR, ALEXANDER
; TITLE OF INVENTION: ANIT-ALPHABETA3 HUMANIZED MONOCLONAL
; TITLE OF INVENTION: ANTIBODIES
; FILE REFERENCE: P50629C1
; CURRENT APPLICATION NUMBER: US/10/223,880
; CURRENT FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: 09/380,910
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: PCT/US98/04987
; PRIOR FILING DATE: 1998-03-12
; PRIOR APPLICATION NUMBER: 60/039,609
; PRIOR FILING DATE: 1997-03-12
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-223-880-2

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Best Local Similarity 76.1%; Pred. No. 4.9e-40; Indels 0; Gaps 0;
Matches 89; Conservative 15; Mismatches 13; Indels 0; Gaps 0;
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QY 61 DONFKGKATLTVDKSSSTAFMHLNSLTSDSAVYFCAR-DVTTALDFWGGGTTLTVSS 117

GenCore version 5.1.7
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Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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12: gb_un.*
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14: gb_hcg.*
15: gb_pl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	321	100.0	321	6 AR087417	AR087417 Sequence
2	321	100.0	321	6 BD057834	BD057834 Antibodie
3	321	100.0	321	6 AR308506	AR308506 Sequence
4	293.8	91.5	375	6 AR452626	AR452626 Sequence
5	293.8	91.5	375	6 AR452627	AR452627 Sequence
6	291.4	90.8	318	9 MMV13991	Y13991 Mus muscu
7	290.6	90.5	321	9 MMALCVR25	X90900 M.musculu
8	289.4	90.2	324	9 MUSIGKADP	M36760 Mouse Ig re
9	288.8	90.0	324	9 MUSIGKADN	M36758 Mouse Ig re
10	287.4	89.5	1135	6 AX100597	AX100597 Sequence
11	287.4	89.5	1135	11 AR302092	AR302092 Synthetic
12	287.2	89.5	324	9 MUSIGKADO	M37559 Mouse Ig re
13	287	89.4	1228	6 E10065	E10065 Synthetic D
14	287	89.4	1300	6 I72625	I72625 Sequence 35
15	287	89.4	1300	6 E10064	E10064 Synthetic D
16	287	89.4	1300	6 I72624	I72624 Sequence 34
17	286.6	89.3	318	9 MMV13992	Y13992 Mus muscu
18	286	89.1	330	9 MMU557029	AJ557029 Mus muscu

19	282.6	88.0	324	9 AF030230	AF030230 Mus muscu
20	282	87.9	318	9 MUSIGKADQ	M36761 Mouse Ig re
21	277.4	86.4	295	6 E10043	E10043 cDNA'b enco
22	277.4	86.4	295	6 I72603	I72603 Sequence 4
23	275.6	85.9	627	9 MMU235949	AJ235949 Mus muscu
24	275.6	85.9	4471	9 AY591700	AY591700 Mus muscu
25	275.6	85.9	198655	14 AC120404	AC120404 Mus muscu
26	272.6	84.9	312	9 MUSIGKADM	M36757 Mouse Ig re
27	239.4	74.6	321	6 BD222154	BD222154 Immunolog
28	239.4	74.6	321	6 AX006748	AX006748 Sequence
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32	239.4	74.6	366	6 AR369279	AR369279 Sequence
33	239.4	74.6	366	6 AR369280	AR369280 Sequence
34	239.4	74.6	366	6 AR476745	AR476745 Sequence
35	239.4	74.6	366	6 AR476746	AR476746 Sequence
36	239.4	74.6	366	6 AR478142	AR478142 Sequence
37	239.4	74.6	366	6 AR478143	AR478143 Sequence
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40	237.8	74.1	381	9 MUSIGKADQ	L24555 Mus muscu
41	237.6	74.0	303	9 MUSIGKAAK	M57988 Mouse Igk c
42	236.4	73.6	289	9 MUSIGKADL	M36756 Mouse Ig re
43	236.2	73.6	364	9 AY208327	AY208327 Mus muscu
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45	236.2	73.6	366	6 AR369281	AR369281 Sequence

ALIGNMENTS

RESULT 1
AR087417
LOCUS AR087417 321 bp DNA linear PAT 07-SEP-2000
DEFINITION Sequence 1 from patent US 5986065.
ACCESSION AR087417
VERSION AR087417.1 GI:10014180
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 321)
AUTHORS Wong,H.C., Jiao,J.-A., Nieves,E.Liliana. and Luepschen,L.
TITLE Antibodies for inhibiting blood coagulation and methods of use thereof
JOURNAL Patent: US 5986065-A 1 16-NOV-1999;
FEATURES Location/Qualifiers
source i. .321
/organism="unknown"
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QY	1	GACATTCAGATGACCCAGCTCTCTGCCTCCAGTCTGCATCTCTGGAGAAAGTGTCACC	60	
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QY	61	ATCACATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGGTATCAGCAGAAACCA	120	
Db	61	ATCACATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGGTATCAGCAGAAACCA	120	
QY	121	GGGAATCTCTCAGTCTCAGTCTGATTTATGTCGCCAACCTTGGCAGATGGGTCCCATCA	180	
Db	121	GGGAATCTCTCAGTCTCAGTCTGATTTATGTCGCCAACCTTGGCAGATGGGTCCCATCA	180	
QY	181	AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTTACAGGCT	240	
Db	181	AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTTACAGGCT	240	

QY 241 GAAGATTTTGTAAATATTACTGTCAACAAGTTTACAGTTCTCCATTCCAGTTCCGTTGCT 300
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 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB |||||||

RESULT 2
 BD057834
 LOCUS 321 bp DNA linear PAT 27-AUG-2002
 DEFINITION Antibodies for inhibiting blood coagulation and methods of use thereof.

ACCESSION BD057834
 VERSION BD057834.1 GI:22603440
 KEYWORDS JP 2001516214-A/1.
 SOURCE synthetic construct

ORGANISM other sequences; artificial sequences.
 REFERENCE 1 (bases 1 to 321)
 AUTHORS Wong, H.C., Jiao, J.A., Nieves, E.L. and Luepschen, L.

TITLE Antibodies for inhibiting blood coagulation and methods of use
 JOURNAL Patent: JP 2001516214-A 1 25-SEP-2001;
 SUNOL MOLECULAR CORP

COMMENT PN JP 2001516214-A/1
 PD 25-SEP-2001
 PF 10-MAR-1998 JP 1998539703

PI HING C WONG, JIN AN JIAO, ESPERANZA LILIANA NIEVES, LAWRENCE PI
 LUEPSCHEN

PC C07K16/00, C07K16/28, C07K16/18, C12N15/12, C12N15/13, A61K39/395

CC Strandedness: Single;
 CC Topology: Linear;

PH Key Location/Qualifiers.

FEATURES source

1. .321
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 /mol_type="genomic DNA"
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 Best Local Similarity 100.0%; Pred. No. 8.8e-88;
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 DB |||||||

61 ATCATATGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGTTATCAGCAGAAACCA 120
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181 AGTTTCAGTGGCAGTGGATCTGSCACAAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
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301 GGGACCAAGCTGGAGCTGAAA 321
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RESULT 3
 AR308506
 LOCUS 321 bp mRNA linear PAT 12-JUN-2003

DEFINITION Sequence 1 from patent US 6555319.
 ACCESSION AR308506
 VERSION AR308506.1 GI:31699968
 KEYWORDS

SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 321)
 AUTHORS Wong, H.C., Jiao, J.-A., Nieves, E.L. and Luepschen, L.

TITLE Antibodies for inhibiting blood coagulation and methods of use thereof

JOURNAL Patent: US 6555319-A 1 29-APR-2003;
 Sunol Molecular Corporation; Miramar, FL

FEATURES source
 Location/Qualifiers
 1. .321
 /organism="unknown"
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 Best Local Similarity 100.0%; Pred. No. 8.8e-88;
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 DB |||||||

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301 GGGACCAAGCTGGAGCTGAAA 321
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RESULT 4
 AR452626
 LOCUS 375 bp DNA linear PAT 20-FEB-2004

DEFINITION Sequence 12 from patent US 6677436.
 ACCESSION AR452626
 VERSION AR452626.1 GI:42684507
 KEYWORDS

SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 375)
 AUTHORS Sato, K., Adachi, H. and Yabuta, N.

TITLE Humanized antibody against human tissue factor (TF) and process of production of the humanized antibody

JOURNAL Patent: US 6677436-A 12 13-JAN-2004;
 Chugai Seiyaku Kabushiki Kaisha; Tokyo;

JPX;

FEATURES source
 Location/Qualifiers
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 Best Local Similarity 94.7%; Pred. No. 2.2e-79;

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Db 115 ATCATGCTGCGCAAGTCAGACATGTTAGCATGTTATCAGCAGAAACCA 174
QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
Db 175 GGGAAATCTCTCAGCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 234
QY 181 AGGTTGAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGACGCTACAGGCT 240
Db 235 AGGTTGAGTGGTGTGATCTGGCACAATAATTTCTTTCAAGATCAGACGCTACAGGCT 294
QY 241 GAAGATTTTCTAAATTATTACTGTCAACAAGTTTACAGTTCTCCATTTCAGTTGCGTGT 300
Db 295 GAAGATTTTCTAAAGTTATTACTGTCAACAATTTTACAGTACTCGTTACAGCTTCGGAGGG 354
QY 301 GGGACCAAGCTGGAGCTGAAA 321
Db 355 GGGACCAAGCTGGAAATAAAA 375

RESULT 5
AR452627
LOCUS 375 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 13 from patent US 6677436.
ACCESSION AR452627
VERSION AR452627.1 GI:42684508
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 375)
AUTHORS Sato,K., Adachi,H. and Yabuta,N.
TITLE Humanized antibody against human tissue factor (TF) and process of production of the humanized antibody
JOURNAL Patent: US 6677436-A 13 13-JAN-2004;
Chugai Seiyaku Kabushiki Kaisha; Tokyo;
JFX;
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source Location/Qualifiers
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Query Match 91.5%; Score 293.8; DB 6; Length 375;
Best Local Similarity 94.7%; Pred. No. 2.2e-79;
Matches 304; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 1 GACATTGAGATGACCCAGTCTCTGGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60
Db 55 GACATTGAGATGACCCAGTCTCTGGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 114
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Db 115 ATCATGCTGCGCAAGTCAGACATGTTAGCATGTTATCAGCAGAAACCA 174
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Db 175 GGGAAATCTCTCAGCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 234
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Db 355 GGGACCAAGCTGGAAATAAAA 375

RESULT 6
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LOCUS 318 bp mRNA linear ROD 14-APR-2000
DEFINITION Mus musculus mRNA for immunoglobulin VK domain of anti-viral haemorrhagic septicaemia virus, clone 3F1H10.
ACCESSION Y13991
VERSION Y13991.1 GI:2222725
KEYWORDS immunoglobulin; kappa chain; light chain; variable region.
ORGANISM Mus musculus (house mouse)
REFERENCE 1 (bases 1 to 318)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridea; Muridae; Murinae; Mus.
TITLE Neutralization of Egtved virus pathogenicity to cell cultures and fish by monoclonal antibodies to the viral G protein
JOURNAL J. Gen. Virol. 71 (Pt 3), 561-567 (1990)
PUBMED 1690259
REFERENCE 2
AUTHORS Lorenzen,N., Cupit,P.M., Secombes,C.J. and Cunningham,C.
TITLE Three monoclonal antibodies to the VHS virus glycoprotein: comparison of reactivity in relation to differences in immunoglobulin variable domain gene sequences
JOURNAL Fish Shellfish Immunol. 10 (2), 129-142 (2000)
PUBMED 10938729
REFERENCE 3 (bases 1 to 318)
AUTHORS Cupit,P.M.
TITLE Direct Submission
JOURNAL Submitted (24-JUN-1997) Cupit P.M., Molecular and Cell Biology, University of Aberdeen, Institute of Medical Science, Foresterhill, Aberdeen, AB15 2ZD SCOTLAND, UK
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Best Local Similarity 95.0%; Pred. No. 1.2e-78;
Matches 301; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 1 GACATTGAGATGACCCAGTCTCTGGCTCCCATCTCTGCTCCAGTGTGTCACTCTGGAGAAAGTGTCAAC 60
Db 1 GACATTGAGATGACCCAGTCTCTGGCTCCCATCTCTGCTCCAGTGTGTCACTCTGGAGAAAGTGTCAAC 60
QY 61 ATCATGCTGCGCAAGTCAGACATGATGATATGATGTTAGCATGTTATCAGCAGAAACCA 120
Db 61 ATCATGCTGCGCAAGTCAGACATGTTAGCATGTTATCAGCAGAAACCA 120
QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
Db 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
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 QY 241 GAAGATTTTGTAAATTTACTGTCTCAACAGTTTACAGTTCTCCATTCAGTTCCGTTGCT 300
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RESULT 7
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 LOCUS M.musculus antibody light chain variable region (321bp).
 DEFINITION X90900
 ACCESSION
 VERSION 2 (bases 1 to 321)
 KEYWORDS antibody light chain; variable region.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus

REFERENCE
 1 Geiser, M. and Kretzschmar, T.
 AUTHORS Geiser, M. and Kretzschmar, T.
 JOURNAL Unpublished

REFERENCE
 2 (bases 1 to 321)
 AUTHORS Geiser, M.

TITLE Direct Submission

JOURNAL Submitted (17-AUG-1995) M. Geiser. CIBA-GEIGY LTD, CDDT,

K-681.5.46, CH-4002, Basel, SWITZERLAND

FEATURES
 Location/Qualifiers

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CDS

ORIGIN
 Query Match 90.5%; Score 290.6; DB 9; Length 321;
 Best Local Similarity 94.1%; Pred. No. 2.2e-78;
 Matches 302; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

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 Db 301 GGGACCAAGCTGGAATCAAA 321
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RESULT 8
 MUSIGKADP 324 bp mRNA linear ROD 27-APR-1993
 LOCUS Mouse Ig rearranged kappa-chain mRNA V-J region, partial cds.
 DEFINITION M36760
 ACCESSION
 VERSION M36760.1 GI:196619
 KEYWORDS J-region; V-region; immunoglobulin light chain; processed gene.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus

REFERENCE
 1 (bases 1 to 324)
 AUTHORS Clarke, S., Rickert, R., Wloch, M. K., Staudt, L., Gerhard, W. and Weigert, M.
 JOURNAL Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchoontoglires; Glires; Rodentia;
 Sciurognathi; Muridea; Muridae; Murinae; Mus.

TITLE The BALB/c secondary response to the Sb site of influenza virus hemagglutinin. Nonrandom silent mutation and unequal numbers of VH and Vk mutations

JOURNAL J. Immunol. 145 (7), 2286-2296 (1990)
 PUBLISHED 2398280
 COMMENT Original source text: Mouse (strain Balb/c), cDNA to mRNA, anti-influenza hemagglutinin hybridoma H37-92 Vk. Draft entry and computer-readable sequence for [J. Immunol. (1990) In press] kindly submitted by S. H. Clarke, 18-JUL-1990.

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 Location/Qualifiers

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 KLEIKR"
 Chromosome 6.

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 Best Local Similarity 93.1%; Pred. No. 5.1e-78;
 Matches 299; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

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RESULT 9
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LOCUS 324 bp mRNA linear ROD 27-APR-1993
DEFINITION Mouse Ig rearranged kappa-chain mRNA V-J region, partial cds.
ACCESSION M36758
VERSION M36758.1 GI:196615
KEYWORDS J-region; V-region; immunoglobulin light chain; processed gene.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
TITLE Sciurognathi; Muridae; Murinae; Mus.
JOURNAL Clarke,S., Rickert,R., Wloch,M.K., Staudt,L., Gerhard,W. and
PUBMED 2398280 Weigert,M.
COMMENT The BALB/c secondary response to the Sb site of influenza virus
hemagglutinin. Nonrandom silent mutation and unequal numbers of VH
and VK mutations
J. Immunol. 145 (7), 2286-2296 (1990)
Original source text: Mouse (strain Balb/c), cDNA to mRNA,
anti-influenza hemagglutinin hybridoma H37-54 Vk.
Draft entry and computer-readable sequence for [J. Immunol. (1990)
In press] kindly submitted
by S.H.Clarke, 18-JUL-1990.

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RLEIKR"
ORIGIN
Chromosome 6.

Query Match 90.0%; Score 288.8; DB 9; Length 324;
Best Local Similarity 93.1%; Pred. No. 7.8e-78;
Matches 299; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCAAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60
Db 1 GACATTCAGATGACCAAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60

QY 61 ATCACATGCTGGCAAGTCAGACATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
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QY 121 GGGAAATCTCTCAGCTCTGCTTATGCTGCACCAACTTGGCAGATGGGTCCCATCA 180
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QY 598 GGGAAATCTCTCAGCTCTGCTTATGCTGCACCAACTTGGCAGATGGGTCCCATCA 657
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QY 658 AGGTTTCAGTGGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTTACAGGCT 717
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QY 718 GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTCTCCATTTCAGTTTCGGTGTCT 777
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QY 301 GGGACCAAGCTGGAGCTGAAA 321
Db 778 GGGACCAAGCTCGAGTCAAA 798

RESULT 11
AF302092
LOCUS 1135 bp DNA linear SYN 26-SEP-2002
DEFINITION Synthetic construct single chain antibody BUI gene, complete cds.
ACCESSION AF302092
VERSION AF302092.1 GI:11692742
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE other sequences; artificial sequences.
AUTHORS 1 (bases 1 to 1135)
TITLE Lorenzen,N., Cupit,P.M., Einer-Jensen,K., Lorenzen,E., Ahrens,P.,
JOURNAL Secondes,C.J. and Cunningham,C.
PUBMED Immunoprophylaxis in fish by injection of mouse antibody genes
Nat. Biotechnol. 18 (11), 1177-1180 (2000)
11062437

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RESULT 10
AX100597
LOCUS 1135 bp DNA linear PAT 10-APR-2001
DEFINITION Sequence 1 from Patent WO0121800.
ACCESSION AX100597
VERSION AX100597.1 GI:13619600
KEYWORDS
SOURCE synthetic construct
ORGANISM other sequences; artificial sequences.
REFERENCE 1
AUTHORS Secondes,C.J., Cunningham,C. and Lorenzen,N.
TITLE Monoclonal antibody 3F1h10 neutralising vhsv (viral haemorrhagic
JOURNAL septicemia virus)
PUBMED Patent: WO 0121800-A 1 29-MAR-2001;
ABERDEEN UNIVERSITY (GB) ; Statens Veterinaere Serumlaboratorium
(DK)

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Matches 300; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

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Db 598 GGGAAATCTCTCAGCTCTGCTTATGCTGCACCAACTTGGCAGATGGGTCCCATCA 657

QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTTACAGGCT 240
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QY 301 GGGACCAAGCTGGAGCTGAAA 321
Db 778 GGGACCAAGCTCGAGTCAAA 798

RESULT 11
AF302092
LOCUS 1135 bp DNA linear SYN 26-SEP-2002
DEFINITION Synthetic construct single chain antibody BUI gene, complete cds.
ACCESSION AF302092
VERSION AF302092.1 GI:11692742
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE other sequences; artificial sequences.
AUTHORS 1 (bases 1 to 1135)
TITLE Lorenzen,N., Cupit,P.M., Einer-Jensen,K., Lorenzen,E., Ahrens,P.,
JOURNAL Secondes,C.J. and Cunningham,C.
PUBMED Immunoprophylaxis in fish by injection of mouse antibody genes
Nat. Biotechnol. 18 (11), 1177-1180 (2000)
11062437

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REFERENCE 2 (bases 1 to 1135)
 AUTHORS Ahrens P. and Cupit, P.
 TITLE Direct Submission
 JOURNAL Submitted (01-SEP-2000) Fish Section, Danish Veterinary Laboratory,
 Hangovej 2, Aarhus DK-8200, Denmark
 Location/Qualifiers

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 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 778 GGGACCAAGCTGGAGCTGAAA 798

RESULT 12
 MUSIGKADO
 LOCUS Mouse Ig rearranged kappa-chain mRNA V-J region, partial cds.
 DEFINITION
 ACCESSION M36759
 VERSION M36759.1 GI:196617
 KEYWORDS J-region; V-region; immunoglobulin light chain; processed gene.

SOURCE
 ORGANISM
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 324)
 Clarke.S., Rickert,R., Wloch,M.K., Staudt,L., Gerhard,W. and

TITLE
 JOURNAL
 PUBMED
 COMMENT
 Original source text: Mouse (strain Balb/c), cDNA to mRNA,
 anti-influenza hemagglutinin hybridoma H37-50 V.
 Draft entry and computer-readable sequence for [J. Immunol. (1990)
 In press] kindly submitted
 by S.H.Clarke, 18-JUL-1990.
 Location/Qualifiers

FEATURES
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 RLEIKR"
 Chromosome 6.

ORIGIN

Query Match 89.5%; Score 287.2; DB 9; Length 324;
 Best Local Similarity 92.8%; Pred. No. 2.4e-77;
 Matches 298; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 60
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RESULT 13
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 DEFINITION Synthetic DNA fragments.
 ACCESSION E10065
 VERSION E10065.1 GI:22026691
 KEYWORDS JP 1995265077-A/24.
 SOURCE unidentified
 ORGANISM unidentified
 unclassified.

REFERENCE 1 (bases 1 to 1228)
 AUTHORS Okuno,Y., Oshima,A., Yoshioka,H., Takahata,T. and Katou,I.
 TITLE DNA CODING FOR ANTIBODY VARIABLE REGION
 JOURNAL Patent: JP 1995265077-A 24 17-OCT-1995;
 TAKARA SHUZO CO LTD
 COMMENT OS None
 OC Artificial sequences.
 PN JP 1995265077-A/24

PD	17-OCT-1995	
PF	30-MAR-1994	JP 1994082693
PI	OKUNO YOSHINOBU, OSHIMA ATSUSHI, YOSHIOKA HIROFUMI, PI TAKAHATA TAKASHI,	
PI	KATOU IKUNOSHIN	
PC	C12N15/09/A61K39/145.C07K16/10.C12N1/21.C12P21/08.G01N33/53,	
PC	G01N33/569,	
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Db	577	ATCACATGCTGGCAAGTCAGACCATTCGTTACATGGTTAGCATGTATCAGCAGAAACCA 636
Qy	121	GGGAAATCTCTCTCAGCTCTCTGATTATTCCTGCGCACCAACTTTGGCAGATGGGGTCCCATCA 180
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Qy	181	AGGTTTCAGTGCAGTGGATCTGGGCACAAAATTTTCTTTCAAGATCAGCAGCTACAGGCT 240
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Qy	241	GAAGATTTGTAAATTTACTGTGCACAAAGTTTACAGTTCTCCATTCACGTTCCGTTGCT 300
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DEFINITION	Sequence 35 from patent US 5684146.	
ACCESSION	I72625	
VERSION	I72625.1	GI:3008764
KEYWORDS		
SOURCE	Unknown.	
ORGANISM	Unknown.	
REFERENCE	Unclassified.	
AUTHORS	1. (bases 1 to 1228)	
TITLE	Okuno,Y., Oshima,A., Yoshioka,H., Takabatake,T. and Kato,I.	
JOURNAL	DNA coding for variable region to human influenza A type virus	
FEATURES	Patent: US 5684146-A 35 04-NOV-1997;	
source	Location/Qualifiers	
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GenCore version 5.1.7
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Gapop 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%
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14: Geneseqn2005s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	321	100.0	321	14	Adz40936 H36.D2.B7
6	310	96.6	322	9	Acc58568 Anti-tiss
7	293.8	91.5	375	2	Aaz33012 Anti-tiss
8	292.2	91.0	375	2	Aaz33013 Anti-tiss
9	289	90.0	949	14	Adz51613 High-func
10	287.4	89.5	1135	4	Aaf76338 Anti-VHSV
11	287	89.4	1300	2	Aat04179 C179Fv-pp
12	285.8	89.0	949	14	Adz51605 High-func
13	285.4	88.9	1228	2	Aat04180 scFv-PP c
14	284.2	88.5	324	3	Aak99183 324nt DNA
15	282.6	88.0	949	14	Adz51609 High-func
16	281	87.5	949	14	Adz51611 High-func
17	281	87.5	949	14	Adz51615 High-func
18	279.4	87.0	949	14	Adz51607 High-func
19	278.4	86.7	312	2	Aaq41257 c23.5 VL

20	275.8	85.9	295	2	AAT04160	Aat04160 Anti-huma
21	239.4	74.6	321	3	Aaz88324	Aaz88324 Anti-zeta
22	239.4	74.6	366	2	Adad27166	Adad27166 Single ch
23	239.4	74.6	366	2	Adad27165	Adad27165 Single ch
24	239.4	74.6	366	4	Adad21541	Adad21541 Single ch
25	239.4	74.6	366	4	Adad21540	Adad21540 Single ch
26	239.4	74.6	366	6	Abss53655	Abss53655 Anti-T-ce
27	239.4	74.6	366	6	Abss53654	Abss53654 Anti-T-ce
28	239.4	74.6	366	12	Adj88101	Adj88101 Wild type
29	239.4	74.6	366	12	Adj88102	Adj88102 Single ch
30	239.4	74.6	366	13	Adro3283	Adro3283 DNA encod
31	239.4	74.6	366	13	Adro3284	Adro3284 DNA encod
32	239.4	74.6	367	2	Aax87211	Aax87211 scFv-KJ16
33	239.4	74.6	724	2	Aax87210	Aax87210 Wild-type
34	239.4	74.6	724	2	Aax90423	Aax90423 Chimeric
35	236.2	73.6	366	2	Adad27167	Adad27167 Single ch
36	236.2	73.6	366	4	Adad21542	Adad21542 Single ch
37	236.2	73.6	366	6	Abss53656	Abss53656 Anti-T-ce
38	236.2	73.6	366	12	Adj88103	Adj88103 Single ch
39	236.2	73.6	366	13	Adro3285	Adro3285 DNA encod
40	236.2	73.6	367	2	Aax87212	Aax87212 scFv-KJ16
41	236.2	73.6	1637	3	Aaz88358	Aaz88358 Bispecific
42	233	72.6	1574	3	Aaz57599	Aaz57599 Erythrocy
43	231.4	72.1	324	3	Aaa99634	Aaa99634 Rat antib
44	231.4	72.1	324	10	Adb97811	Adb97811 HEV relat
45	231.4	72.1	384	2	Aat35973	Aat35973 Anti-huma

ALIGNMENTS

RESULT 1

AAV54961
ID AAV54961 standard; cDNA; 321 BP.

AC AAV54961;

DT 10-DEC-1998 (first entry)

XX Human anti-tissue factor light chain variable region encoding cDNA.

DE Human; anti-tissue factor light chain variable region; H36.D2.B7;

KW anti-tissue factor heavy chain variable region; inhibition; antibody;

KW blood coagulation; thrombosis; restenosis; thromboembolic condition;

KW cardiovascular; infection; neoplastic disease; clot; diagnosis; ss.

OS Homo sapiens.

XX Key Location/Qualifiers

FT CDS 1..321

FT /product= a

FT /note= "anti-tissue factor light chain variable

FT region"

FT /note= "no stop codon given"

XX WO9840408-A1.

XX 17-SEP-1998.

XX 10-MAR-1998; 98WO-US004644.

XX 10-MAR-1997; 97US-00814806.

XX (SUNO-) SUNOL MOLECULAR CORP.

XX Wong HC, Jiao J, Nieves EL, Luepschen L;

XX WPI; 1998-520804/44.

XX P-PSDB; AAW71287.

XX New antibody to human tissue factor - used for, e.g. treating thrombosis or restenosis or thromboembolic conditions associated with cardiovascular, infectious or neoplastic disease.

```
XX Claim 11; Fig 1A; 53pp; English.
PS The present sequence encodes the human anti-tissue factor light chain
XX variable region from an antibody that binds native human tissue factor
CC (TF) and does not bind non-native TF. The antibody capable of
CC specifically binding native TF may be used for inhibiting blood
CC coagulation and also for reducing TF levels in a mammal. The antibodies
CC can be used, e.g. to treat thromboses, particularly to prevent or inhibit
CC restenosis, or other thromboses following an invasive medical procedure
CC such as arterial or cardiac surgery (e.g. angioplasty, endarterectomy,
CC deployment of a stent, use of catheter, graft implantation or use of an
CC arteriovenous shunt). The antibodies can also be used as a carrier for
CC drugs, particularly pharmaceuticals targeted for interaction with a blood
CC clot such as streptokinase, tissue plasminogen activator (t-PA) or
CC urokinase, or a cytotoxic agent by conjugating a suitable toxin to the
CC antibody. Further the antibodies can be used for treating a
CC thromboembolic condition associated with cardiovascular disease, an
CC infectious disease, a neoplastic disease or as a thrombolytic agent. The
CC antibodies can also be used for detection and diagnosis
XX
SQ Sequence 321 BP; 85 A; 80 C; 73 G; 83 T; 0 U; 0 Other;

Query Match      100.0%; Score 321; DB 2; Length 321;
Best Local Similarity 100.0%; Pred. No. 1.1e-92;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCCACC 60
DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCCACC 60

QY 61 ATCATGCTGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
DB 61 ATCATGCTGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCTCAGTCTCTGATTTATGTGTCACCAACTTGGCAGATGGGTGCCATCA 180
DB 121 GGGAAATCTCTCAGTCTCTGATTTATGTGTCACCAACTTGGCAGATGGGTGCCATCA 180

QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240
DB 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240

QY 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGGTTCCGGTGT 300
DB 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGGTTCCGGTGT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGCTGGAGCTGAAA 321

RESULT 2
ADL35002
ID ADL35002 standard; DNA; 321 BP.
XX
XX ADL35002;
XX
XX 03-JUN-2004 (first entry)
XX
DE Murine anti-tissue factor light chain antibody DNA SeqID 1.
XX
XX murine; mouse; humanised antibody; variable domain; framework region; FR;
XX huFR; immune system molecule; H36.D2.B7; ss; gene; anti-tissue factor.
XX
XX Mus sp.
XX
XX Key Location/Qualifiers
XX CDS 1..321
XX /tag= a
XX /partial
XX /product= "H36.D2.B7 light chain protein"
XX /note= "Start and stop codons are absent"
XX
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XX WO2004020579-A2.
XX 11-MAR-2004.
XX 06-AUG-2003; 2003WO-US024637.
XX 29-AUG-2002; 2002US-00230880.
XX (SUNO-) SUNOL MOLECULAR CORP.
XX
XX Wong HC, Stinson JR, Mosquera LA;
XX WPI; 2004-239169/22.
XX P-PSDB; ADL35003.
XX
XX Producing humanized antibodies for diagnostic and therapeutic purposes
XX comprises optimizing similarity between individual antibody framework
XX regions to help identify human framework regions suitable for making the
XX antibodies.
XX
XX Disclosure; SEQ ID NO 1; 137pp; English.
XX
XX This invention relates to a novel method for producing a humanised
XX antibody variable (V) domain or its fragment by optimising sequence
XX similarity between individual antibody framework regions (FRs) in order
XX to identify suitable human FRs (huFRs). Specifically, it refers to novel
XX immune system molecules i.e. humanised monoclonal antibodies that exhibit
XX suitable binding affinity with reduced immunogenicity in humans. The
XX present invention describes a method of mutagenising DNA of non-human FRs
XX to encode humanised FRs having an amino acid sequence that is
XX substantially identical to the selected human FR previously identified
XX through sequence similarity searching. As such, this method provides
XX humanised light or heavy chain V domains of the sequence huFR1-huFR2
XX -CDR2-huFR3-CDR3-huFR4, which can be used as therapeutic or diagnostic
XX products to treat and/or diagnose diseases in humans and animals.
XX Furthermore, the method expands the number of best fit possibilities that
XX can be generated and provides a rational basis for assembling nearly all
XX humanised immune system molecules of interest. This polynucleotide
XX sequence is a murine anti-tissue factor light chain antibody H36.D2.B7
XX DNA of the invention.
XX
XX Sequence 321 BP; 85 A; 80 C; 73 G; 83 T; 0 U; 0 Other;

Query Match      100.0%; Score 321; DB 12; Length 321;
Best Local Similarity 100.0%; Pred. No. 1.1e-92;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCCACC 60
DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCCACC 60

QY 61 ATCATGCTGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
DB 61 ATCATGCTGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCTCAGTCTCTGATTTATGTGTCACCAACTTGGCAGATGGGTGCCATCA 180
DB 121 GGGAAATCTCTCAGTCTCTGATTTATGTGTCACCAACTTGGCAGATGGGTGCCATCA 180

QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240
DB 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240

QY 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGGTTCCGGTGT 300
DB 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGGTTCCGGTGT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGCTGGAGCTGAAA 321
```

RESULT 3

ADU06807 standard; DNA; 321 BP.
 AC ADU06807;
 XX
 XX
 XX 10-FEB-2005 (first entry)
 XX
 XX Murine H36.D2.B7 antibody VL encoding DNA SEQ ID NO:1.
 DE
 XX ds; gene; septic shock syndrome; tissue factor; antibacterial;
 KW immunosuppressive; antibody; antibody therapy.
 XX
 XX Mus musculus.
 OS
 XX
 XX Key Location/Qualifiers
 FH 1. .321
 FT CDS
 FT /*tag= a
 FT /product= "Antibody H36.D2.B7 light chain variable
 FT region"
 FT /partial
 FT /note= "No start/stop codon given"
 FT /transl_except= (pos:16..21,aa:Ser)
 FT 16..21
 FT /*tag= b
 FT 70..90
 FT /*tag= c
 FT /note= "Encodes hypervariable region CDR1"
 FT 148..168
 FT /*tag= d
 FT /note= "Encodes hypervariable region CDR2"
 FT 265..292
 FT /*tag= e
 FT /note= "Encodes hypervariable region CDR3"
 FT
 FT
 XX US2004229282-A1.
 XX
 XX 18-NOV-2004.
 XX
 XX 22-JAN-2004; 2004US-00764140.
 XX
 XX 10-MAR-1997; 97US-00814806.
 PR 16-APR-1999; 99US-00293854.
 PR 12-NOV-2002; 2002US-00293417.
 XX
 XX (SUNO-) SUNOL MOLECULAR CORP.
 XX
 XX Wong HC, Jiao J;
 XX
 XX WPI; 2004-813246/80.
 DR P-PSDB; ADU06808.
 XX
 XX Treating or preventing septic shock syndrome in mammal, involves
 PT administering antibody that binds native human tissue factor and does not
 PT substantially bind non-native tissue factor.
 XX
 XX Claim 43; SEQ ID NO 1; 28pp; English.
 XX
 XX The invention relates to a novel method for treating or preventing (M1)
 CC septic shock syndrome in a mammal, involving administering to the mammal
 CC an effective amount of an antibody that binds native human tissue factor
 CC and does not substantially bind non-native human tissue factor
 CC factor X binding to the complex is inhibited and the administration is
 CC sufficient to prevent or treat the septic shock syndrome in the mammal.
 CC In (M1), the antibody has the binding specificity for native human tissue
 CC factor about equal to or greater than H36.D2.B7 (ATCC HB-12255), and is a
 CC monoclonal chimeric antibody. An antibody of the invention has
 CC antibacterial and immunosuppressive activity, and acts as an inhibitor of
 CC binding between factor X or factor VIIa and tissue factor/factor VIIa
 CC complex. The present sequence encodes the light chain variable region of
 CC the murine antibody of the invention, H36.D2.B7.
 XX
 XX Sequence 321 BP; 85 A; 80 C; 73 G; 83 T; 0 U; 0 Other;

Query Match 100.0%; Score 321; DB 13; Length 321;
 Best Local Similarity 100.0%; Pred. No. 1.1e-92;
 Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGTCATCTCTGGGAGAAAGTGTCA 60
 DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGTCATCTCTGGGAGAAAGTGTCA 60
 QY 61 ATCACAATGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
 DB 61 ATCACAATGCTGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
 QY 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTTGGCAGATGGGTCCTCATCA 180
 DB 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTTGGCAGATGGGTCCTCATCA 180
 QY 181 AGTTTCAGTGGCAGTGGATCTGCACAAAATTTCTTTCAAGATCAGCAGCTACAGGCT 240
 DB 181 AGTTTCAGTGGCAGTGGATCTGCACAAAATTTCTTTCAAGATCAGCAGCTACAGGCT 240
 QY 241 GAAGATTTTGTAAATTTACTCTCAACAAAGTTTACAGTTCTCATTTCAGTTCCGGTGCT 300
 DB 241 GAAGATTTTGTAAATTTACTCTCAACAAAGTTTACAGTTCTCATTTCAGTTCCGGTGCT 300
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 301 GGGACCAAGCTGGAGCTGAAA 321
 RESULT 4
 ADM07325
 ID ADM07325 standard; cDNA; 321 BP.
 XX
 XX ADM07325;
 XX
 XX 07-APR-2005 (first entry)
 XX
 XX Mouse anti-tissue factor antibody H36.D2.B7 VL cDNA.
 XX
 XX Blood-clotting; light chain variable region; inflammation;
 KW antinflammatory; antibody; ss; tissue factor; sepsis;
 KW disseminated intravascular coagulation; anticoagulant;
 KW hematological disease; thrombosis; lung injury; respiratory-gen.;
 KW respiratory distress syndrome; immunosuppressive; Antibacterial;
 KW Antiarthritic; Antianemic; anemia; rheumatoid arthritis;
 KW glomerulonephritis; multiple sclerosis; psoriasis; sjogren's syndrome;
 KW inflammatory bowel disease.
 XX
 XX Mus sp.
 XX
 XX Key Location/Qualifiers
 FH 1..321
 FT CDS
 FT /*tag= a
 FT /product= "Light chain"
 FT /partial
 FT /note= "No start or stop codon shown"
 FT
 FT
 XX WO2005004793-A2.
 XX
 XX 20-JAN-2005.
 XX
 XX 04-JUN-2004; 2004WO-US017900.
 XX
 XX 19-JUN-2003; 2003US-0480254P.
 PR 22-JAN-2004; 2004US-0538892P.
 XX
 XX (SUNO-) SUNOL MOLECULAR CORP.
 XX
 XX Jiao J, Wong HC, Egan JO;
 XX
 XX WPI; 2005-091964/10.
 DR P-PSDB; ADM07326.

XX Preventing or treating sepsis or inflammation in mammals comprises
PT administering a humanized or chimeric antibody that binds to a human
PT tissue factor to form a complex in which factor X or IX binding to the
PT complex is inhibited.
XX
XX Disclosure; SEQ ID NO 1; 109pp; English.
XX
XX The invention relates to preventing or treating a sepsis or inflammatory
CC disease in a mammal comprising administering to the mammal a therapeutic
CC amount of at least one humanized antibody, chimeric antibody, or their
CC fragment that binds specifically to tissue factor (TF) to form a complex,
CC where factor X or IX binding to the complex is inhibited and the
CC administration prevents or treats the sepsis in the mammal. Also included
CC are a kit for performing the above method and reducing an inflammatory
CC cytokine production in a mammal. The inflammatory disease is associated
CC with arthritis (preferably rheumatoid arthritis), glomerulonephritis,
CC multiple sclerosis, psoriasis, Sjogren's syndrome, or inflammatory bowel
CC disease. The method also treats or prevents a sepsis-induced anemia or a
CC sepsis-related condition in a mammal, where the sepsis-related condition
CC is DIC, fibrin deposition, thrombosis, lung injury, or sepsis-associated
CC renal disorder. The lung injury is acute lung injury (ALI) or acute
CC respiratory distress syndrome (ARDS). The sepsis-associated renal
CC disorder is acute tubular necrosis. The methods and kit are useful for
CC preventing or treating sepsis or sepsis-related conditions (e.g. DIC or
CC anemia) or inflammatory diseases (e.g. arthritis). The humanized
CC antibodies are based on the chimeric antibody ch36 which comprises the
CC light and heavy chain variable regions (VL or VH) of an anti-TF antibody
CC fused to the human IgG4 heavy and kappa light constant regions. The CDRA
CC (complementarity determining region) and FRs (framework regions) are then
CC humanized. The present sequence encodes the light or heavy chain variable
CC region of the anti-TF antibody (wild-type).
XX
XX Sequence 321 BP; 85 A; 80 C; 73 G; 83 T; 0 U; 0 Other;
SQ

Query Match 100.0%; Score 321; DB 14; Length 321;
Best Local Similarity 100.0%; Pred. No. 1.1e-92;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGCTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60
Db 1 GACATTCAGATGACCCAGCTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60
QY 61 ATCATATGCTGGCAAGTCAGACCATTTGATATGATGCTGCAATGTTAGCATGTTATCAGCAGAAACCA 120
Db 61 ATCATATGCTGGCAAGTCAGACCATTTGATATGATGCTGCAATGTTAGCATGTTATCAGCAGAAACCA 120
QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGTGCCATCA 180
Db 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGTGCCATCA 180
QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATTTTCTTTCAGATCAGCAGCCTACAGGCT 240
Db 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATTTTCTTTCAGATCAGCAGCCTACAGGCT 240
QY 241 GAAGATTTTGAATTTTACTGTCAACAAAGTTTACAGTTCTCCATTACGTTTCGGTGTCT 300
Db 241 GAAGATTTTGAATTTTACTGTCAACAAAGTTTACAGTTCTCCATTACGTTTCGGTGTCT 300
QY 301 GGGACCAAGCTCGAGCTGAAA 321
Db 301 GGGACCAAGCTCGAGCTGAAA 321

RESULT 5
ADZ40936
ID ADZ40936 standard; DNA; 321 BP.
XX
AC ADZ40936;
XX
DT 14-JUL-2005 (first entry)
XX H36.D2.B7 anti-tissue factor light chain variable region encoding DNA.

XX antibody; tissue factor; blood-clotting; anticoagulant; vasotropic;
KW thrombolytic; cardiovascular disease; infectious disease; neoplasm;
KW thrombosis; restenosis; light chain variable region; gene; ds.
XX
XX Homo sapiens.
OS Synthetic.
XX
XX Location/Qualifiers
FH Key 1..321
CDS /*tag= a
FT /product= "H36.D2.B7 anti-tissue factor light chain
FT variable region"
XX
XX US2005089929-A1.
XX
XX 28-APR-2005.
XX
XX 11-JUL-2003; 2003US-00618338.
XX
XX 10-MAR-1997; 97US-00814806.
XX
XX 16-APR-1999; 99US-00293854.
XX
XX 12-NOV-2002; 2002US-00293417.
XX
XX (SUNO-) SUNOL MOLECULAR CORP.
XX
XX Jiao J, Wong HC, Wen J;
PI WPI; 2005-344279/35.
XX
XX P-PSDB; ADZ40937.
XX
XX Antibodies binding to native human tissue factor without substantial
PT binding to non-native tissue factor, useful for inhibiting blood
PT coagulation, for reducing tissue factor levels in a mammal, and for
PT detecting tissue factor.
XX
XX Claim 11; SEQ ID NO 1; 36pp; English.
XX
XX The invention relates to an antibody (I) that binds native human tissue
CC factor and does not substantially bind non-native tissue factor. Also
CC described: (1) an isolated nucleic acid (II) comprising a sequence
CC encoding at least a portion of an antibody that binds native human tissue
CC factor; (2) a recombinant vector (IV) comprising (II), where (IV) can
CC express at least a portion of an antibody that binds native human tissue
CC factor; (3) a host cell (V) comprising (IV); (4) inhibiting (M1) blood
CC coagulation in a mammal by administering the antibody, where the antibody
CC complexes with native tissue factor and factor X binding to the complex
CC is inhibited; (5) reducing (M2) tissue factor levels in a mammal by
CC administering the antibody covalently linked to a cell toxin or to an
CC effector molecule to provide complement-fixing ability and antibody-
CC dependent cell-mediated cytotoxicity, where the antibody contacts cells
CC expressing tissue factor to reduce tissue factor levels in the mammal;
CC and (6) detecting (M3) tissue factor in a biological sample comprising
CC contacting the sample with the antibody (I), where the antibody is
CC monoclonal. (I) is useful for inhibiting blood coagulation in a mammal
CC (preferably human), for reducing tissue factor levels in a mammal, and
CC for detecting tissue factor in a biological sample. (I) can be used in
CC the treatment of a thromboembolic condition associated with
CC cardiovascular disease, an infectious disease, or a neoplastic disease,
CC such as thrombosis and restenosis. The antibodies of the invention
CC (especially H36.D2.B7 (secreted by Hybridoma ATCC HB-12255)) bind
CC strongly to a conformational epitope in native human tissue factor and do
CC not substantially bind to non-native or denatured tissue factor. The
CC antibodies prevent conversion of factor X to its activated form factor
CC Xa. The present sequence encodes the H36.D2.B7 anti-tissue factor light
CC chain variable region.
XX
XX Sequence 321 BP; 85 A; 80 C; 73 G; 83 T; 0 U; 0 Other;
SQ

Query Match 100.0%; Score 321; DB 14; Length 321;
Best Local Similarity 100.0%; Pred. No. 1.1e-92;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60
 Db 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60
 QY 61 ATCACATGCTGGCAAGTCAGACCAATGTATACATGGTTAGCATGGTATCAGCAGAAACCA 120
 Db 61 ATCACATGCTGGCAAGTCAGACCAATGTATACATGGTTAGCATGGTATCAGCAGAAACCA 120
 QY 121 GGGAAATCTCTCAGCTCTCGATTATGTCTGCCAACCACTTGGCAGATGGGTGCCATCA 180
 Db 121 GGGAAATCTCTCAGCTCTCGATTATGTCTGCCAACCACTTGGCAGATGGGTGCCATCA 180
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240
 Db 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240
 QY 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTCAGTTTCGGTGCT 300
 Db 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTCAGTTTCGGTGCT 300
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 Db 301 GGGACCAAGCTGGAGCTGAAA 321

RESULT 6 ACC58568

ID ACC58568 standard; cDNA; 322 BP.

AC 58568;

DT 26-AUG-2003 (first entry)

DE Anti-tissue factor antibody H36.D2.B7 VL coding sequence.

KW Tissue factor; antibody; H36.D2.B7; anticoagulant; cytostatic;
 KW antiinflammatory; mouse; gene; ss.

OS Mus sp.

FH Key Location/Qualifiers

FT 1. .322

FT /tag= a

FT /partial

FT /product= "H36.D2.B7 VL"

FT /transl_except= (pos:256. .259,aa:Tyr)

FT /note= "this codon has an apparent 1 nucleotide insertion
 which alters the reading frame; the CDS has no start or
 stop codon"

PN WO2003037911-A2.

XX 08-MAY-2003.

XX 29-OCT-2002; 2002WO-US034727.

XX 29-OCT-2001; 2001US-0343306P.

PR 21-NOV-2001; 2001US-00990586.

XX (SUNO-) SUNOL MOLECULAR CORP.

XX Jiao J, Wong HC, Nieves EL, Mosquera LA;

XX WPI; 2003-468399/44.

DR P-PSDB; ABR42699.

XX New humanized antibody that binds specifically to human tissue factor,
 PT useful for in vivo diagnostic methods, or for inhibiting blood
 PT coagulation or blood clot formation, angiogenesis, tumor metastases or
 PT inflammation in a mammal.

XX Example 1; Fig 1A; 110pp; English.

PS

CC The present sequence is the coding sequence for the light chain variable
 CC region (VL) of anti-recombinant human tissue factor (TF) murine antibody
 CC H36.D2.B7 (ATCC HB-12255). The invention relates to antibodies,
 CC especially humanized H36.D2.B7, that provide superior anticoagulant
 CC activity by binding native human TF with high affinity and specificity.
 CC The antibodies bind human TF, either alone or present in a TF:Factor VIIa
 CC complex, effectively preventing Factor X (or Factor IX) binding to TF or
 CC the complex, and thereby reducing blood coagulation. The humanized
 CC antibodies are useful for inhibiting blood coagulation or blood clot
 CC formation, angiogenesis, tumor metastases or inflammation in a mammal.
 CC They are also useful as drug carriers, as cytotoxic agents, for reducing
 CC TF levels in mammals, and for in vivo diagnosis

SQ Sequence 322 BP; 85 A; 80 C; 73 G; 84 T; 0 U; 0 Other;

Query Match 96.6%; Score 310; DB 9; Length 322;

Best Local Similarity 99.7%; Pred. No. 3.8e-89;

Matches 321; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60

Db 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60

QY 61 ATCACATGCTGGCAAGTCAGACCAATGTATACATGGTTAGCATGGTATCAGCAGAAACCA 120

Db 61 ATCACATGCTGGCAAGTCAGACCAATGTATACATGGTTAGCATGGTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCTCAGCTCTCGATTATGTCTGCCAACCACTTGGCAGATGGGTGCCATCA 180

Db 121 GGGAAATCTCTCAGCTCTCGATTATGTCTGCCAACCACTTGGCAGATGGGTGCCATCA 180

QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240

Db 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 240

QY 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTCAGTTTCGGTGTC 299

Db 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCTCCATTCAGTTTCGGTGTC 300

QY 300 TGGGACCAAGCTGGAGCTGAAA 321

Db 301 TGGGACCAAGCTGGAGCTGAAA 322

RESULT 7

AAZ33012

ID AAZ33012 standard; DNA; 375 BP.

XX AAZ33012;

XX 26-JAN-2000 (first entry)

XX Anti-tissue factor mouse monoclonal antibody ATR-2 L chain V region DNA.

XX Human tissue factor; TF; humanised; antibody; mouse monoclonal antibody;
 KW ATR-2; ATR-3; ATR-4; ATR-5; ATR-7; ATR-8; thrombotic disease; DIC;
 KW disseminated intravascular coagulation; immunogenicity; chimeric; ss.

OS Synthetic.

XX Mus sp.

XX WO9951743-A1.

XX 14-OCT-1999.

XX 02-APR-1999; 99WO-JP001768.

PR 03-APR-1998; 98JP-00091850.

XX (CHUS) CHUGAI SEIYAKU KK.

XX Sato K, Adachi H, Yabuta N;

XX

DR WPI; 1999-620204/53.
 XX P-PSDB; AAY52761.
 XX Humanised antibody recognizing human tissue factor, used for treatment of
 PT disseminated intravascular coagulation.
 XX
 XX Example 1; Page 190-191; 291pp; Japanese.
 XX
 CC The present invention describes chimeric antibody (Ab) heavy (H) chains
 CC containing the variable region of the H chain of a mouse monoclonal Ab
 CC recognising human tissue factor (hTF) and the constant region of the H
 CC chain of a human Ab. The variable region is one of six specified
 CC sequences (which are the H chain variable regions from mouse monoclonal
 CC Ab's ATR-2,3,4,5,7 or 8). Also described are chimeric Ab light (L) chains
 CC containing the variable region of the L chain of a mouse monoclonal Ab
 CC recognising human tissue factor (hTF) and the constant region of the L
 CC chain of a human Ab, the variable region being one of six specified
 CC sequences (which are the L chain variable regions from mouse monoclonal
 CC Ab's ATR-2,3,4,5,7 or 8). The chimeric Ab's can be used for the treatment
 CC and prevention of thrombotic disease, especially of disseminated
 CC intravascular coagulation (DIC). The humanised antibody has the high hTF
 CC binding activity of the mouse monoclonal antibody but greatly reduced
 CC immunogenicity. AAZ33001 to AAZ33091 and Y527007 to AAY52767 represent
 CC sequences used in the exemplification of the present invention
 XX
 XX Sequence 375 BP; 96 A; 89 C; 92 G; 98 T; 0 U; 0 Other;
 Query Match 91.5%; Score 293.8; DB 2; Length 375;
 Best Local Similarity 94.7%; Pred. No. 6.5e-84;
 Matches 304; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
 QY 1 GACATTGAGTACAGCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTACCC 60
 Db 55 GACATTGAGTACAGCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTACCC 114
 QY 61 ATCACATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGGTATCAGCAGAAACCA 120
 Db 115 ATCACATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGGTATCAGCAGAAACCA 174
 QY 121 GGGAAATCTCTCAGTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA 180
 Db 175 GGGAAATCTCTCAGTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA 234
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTACAGGCT 240
 Db 235 AGGTTTCAGTGGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTACAGGCT 294
 QY 241 GAAGATTTGTAAATTTATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGTTTGGTGTCT 300
 Db 295 GAAGATTTGTAAATTTATTTACTGTCAACAACTTTACAGTACTCCGTACACGTTTCGGAGGG 354
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 Db 355 GGGACCAAGCTGGAAATAAAA 375
 RESULT 8
 ID AAZ33013 standard; DNA; 375 BP.
 XX
 XX AAZ33013;
 XX
 XX 26-JAN-2000 (first entry)
 XX
 XX Anti-tissue factor mouse monoclonal antibody ATR-3 L chain V region DNA.
 XX
 XX Human tissue factor; TF; humanised; antibody; mouse monoclonal antibody;
 KW ATR-2; ATR-3; ATR-4; ATR-5; ATR-7; ATR-8; thrombotic disease; DIC;
 KW disseminated intravascular coagulation; immunogenicity; chimeric; ss.
 XX
 XX Synthetic.
 OS Mus sp.
 XX

PN WO9951743-A1.
 XX
 PD 14-OCT-1999.
 XX
 PF 02-APR-1999; 99WO-JP001768.
 XX
 PR 03-APR-1998; 98JP-00091850.
 XX
 XX (CHUS) CHUGAI SEIYAKU KK.
 XX
 XX Sato K, Adachi H, Yabuta N;
 PI
 XX
 XX WPI; 1999-620204/53.
 DR P-PSDB; AAY52762.
 DR
 XX Humanised antibody recognizing human tissue factor, used for treatment of
 PT disseminated intravascular coagulation.
 XX
 XX Example 1; Page 192; 291pp; Japanese.
 XX
 CC The present invention describes chimeric antibody (Ab) heavy (H) chains
 CC containing the variable region of the H chain of a mouse monoclonal Ab
 CC recognising human tissue factor (hTF) and the constant region of the H
 CC chain of a human Ab. The variable region is one of six specified
 CC sequences (which are the H chain variable regions from mouse monoclonal
 CC Ab's ATR-2,3,4,5,7 or 8). Also described are chimeric Ab light (L) chains
 CC containing the variable region of the L chain of a mouse monoclonal Ab
 CC recognising human tissue factor (hTF) and the constant region of the L
 CC chain of a human Ab, the variable region being one of six specified
 CC sequences (which are the L chain variable regions from mouse monoclonal
 CC Ab's ATR-2,3,4,5,7 or 8). The chimeric Ab's can be used for the treatment
 CC and prevention of thrombotic disease, especially of disseminated
 CC intravascular coagulation (DIC). The humanised antibody has the high hTF
 CC binding activity of the mouse monoclonal antibody but greatly reduced
 CC immunogenicity. AAZ33001 to AAZ33091 and Y527007 to AAY52767 represent
 CC sequences used in the exemplification of the present invention
 XX
 XX Sequence 375 BP; 96 A; 88 C; 93 G; 98 T; 0 U; 0 Other;
 Query Match 91.0%; Score 292.2; DB 2; Length 375;
 Best Local Similarity 94.4%; Pred. No. 2.1e-83;
 Matches 303; Conservative 0; Mismatches 18; Indels 0; Gaps 0;
 QY 1 GACATTGAGTACAGCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTACCC 60
 Db 55 GACATTGAGTACAGCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTACCC 114
 QY 61 ATCACATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGGTATCAGCAGAAACCA 120
 Db 115 ATCACATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGGTATCAGCAGAAACCA 174
 QY 121 GGGAAATCTCTCAGTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA 180
 Db 175 GGGAAATCTCTCAGTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA 234
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTACAGGCT 240
 Db 235 AGGTTTCAGTGGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTACAGGCT 294
 QY 241 GAAGATTTGTAAATTTATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGTTTGGTGTCT 300
 Db 295 GAAGATTTGTAAATTTATTTACTGTCAACAACTTTACAGTACTCCGTACACGTTTCGGAGGG 354
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 Db 355 GGGACCAAGCTGGAAATAAAA 375
 RESULT 9
 ID AAZ51613 standard; DNA; 949 BP.
 XX
 XX ADZ51613;
 AC

XX 30-JUN-2005 (first entry)
DT High-functioning protein related DNA SEQ ID NO 114.
XX cytostatic; hypotensive; nucleic acid library; cancer; neoplasm;
KW hypertension; cardiovascular disease; ds; gene.
XX Unidentified.
OS WO2005035751-A1.
XX 21-APR-2005.
XX 15-OCT-2004; 2004WO-JP015290.
XX 15-OCT-2003; 2003JP-00355702.
XX (UYKE-) UNIV KEIO.
XX Yanagawa H, Tabata N, Kojoh K;
XX WPI; 2005-346216/35.
XX P-PSDB; ADZ51614.
XX Selecting a high-functioning protein which is useful for treating cancer
PT and hypertension, comprises selecting a protein interacting with a target
PT molecule.
XX Disclosure; SEQ ID NO 114; 92pp; Japanese.
XX The invention relates to a method of selecting a high-functioning protein
CC which comprises constructing a protein-coding DNA library, transcribing
CC DNAs, attaching a spacer to the 3' end of transcribed RNAs and
CC constructing a library of molecules assigned to genotype and phenotype in
CC a cell-free translation system, treating the library of assigned
CC molecules, binding an assigned molecule to a target molecule and
CC amplifying nucleic acid. The method is useful for selecting a high-
CC functioning protein by selecting a protein interacting with a target
CC molecule. The method is useful for manufacturing a protein which
CC interacts with a target molecule. The single stranded antibodies are
CC useful for treating cancer and hypertension. The method is rapid and
CC efficient. The present sequence represents a high-functioning protein
CC related DNA.
XX
SQ Sequence 949 BP; 248 A; 220 C; 259 G; 222 T; 0 U; 0 Other;
Query Match 90.0%; Score 289; DB 14; Length 949;
Best Local Similarity 93.8%; Pred. No. 3.3e-82;
Matches 301; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC 60
DB 552 GACATTCAGATGACACAGTCTCTGCTCCAGTCTGCATCTCTGGAGAAAGTGTCA 611
QY 61 ATCACATGCTGGCAAGTACAGACCAATGATGATGATGATGATGATGATGATGATGAT 120
DB 612 ATCACATGCTGGCAAGTACAGACCAATGATGATGATGATGATGATGATGATGATGAT 671
QY 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA 180
DB 672 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA 731
QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGACGCTTACAGGCT 240
DB 732 AGGTTTCAGTGGTATGATGATCTGGCACAATAATTTCTTCAAGATCAGACGCTTACAGGCT 791
QY 241 GAAGATTTTGAATATTTACTGTCAACAAAGTTTACAGTTTCCATTCAGTTCCGTTGCT 300
DB 792 GAAGATTTTGAATATTTACTGTCAACAACTTTACAGTACTCCGTTGGACGTTCCGTTGA 851
QY 301 GGGACCAAGCTGGAGCTGAA 321
|||

Db 852 GGTACCAAGCTGGAATCAAA 872
RESULT 10
AAF76338
ID AAF76338 standard; DNA; 1135 BP.
XX
AC AAF76338;
XX
DT 05-JUN-2001 (first entry)
XX
DE Anti-VHSV single chain antibody BUI-encoding DNA.
XX
KW Anti-VHSV; single chain antibody BUI; ScAb; scFv;
KW monoclonal antibody 3F1H10; variable region; antiviral; anti-allergy;
KW human kappa light chain constant domain; vaccine; gene therapy;
KW rainbow trout TGF-beta signal peptide; transforming growth factor beta;
KW genetic prophylaxis; ds.
XX
XX Oncorhynchus mykiss.
OS Mus musculus.
OS Homo sapiens.
OS Synthetic.
OS Chimeric.
XX
FH Key Location/Qualifiers
FT misc_feature 1..9
FT /tag= a
FT /note= "Derived from Invitrogen pCDNA3"
FT CDS 13..1122
FT /tag= c
FT /product= "Single chain antibody BUI"
FT misc_feature 1126..1135
FT /tag= b
FT /note= "BUI insert region"
FT misc_feature 1126..1135
FT /tag= d
FT /note= "Derived from Invitrogen pCDNA3"
FT WO200121800-A1.
XX
PD 29-MAR-2001.
XX
XX 20-SEP-2000; 2000WO-GB003605.
XX
XX 20-SEP-1999; 99DK-00001329.
XX
XX (UYAB-) UNIV ABERDEEN.
PA (STAT-) STATENS VETERINAERE SERUMLABORATORIUM.
XX
PI Secombes CJ, Cunningham C, Lorenzen N;
XX
XX WPI: 2001-257991/26.
DB P-PSDB; AAB73388.
XX
PT New non-infectious nucleic acid construct encoding recombinant antibody
PT molecule, useful for conferring protective immunity to infectious
PT diseases, preventing allergic reactions or reactions caused by toxins in
PT animals.
XX
PS Example; Page 9-10; 29pp; English.
XX
CC The invention relates to a non-infectious nucleic acid construct encoding
CC a recombinant (e.g., single chain) antibody molecule. The nucleic acid
CC construct is adapted for in vivo establishment of protective immunity to
CC an infectious disease in an animal, or is formulated for in vivo
CC prevention of an allergic reaction to an allergen or a reaction caused by
CC the presence of a toxic substance in an animal. Constructs of the
CC invention are thus useful for treating infectious disease caused by viral
CC haemorrhagic septicemia virus (VHSV) (fish), infectious haemotopoietic
CC necrosis virus (fish), bovine viral diarrhoea virus, pseudorabies virus
CC (pigs), plasmocytosis virus (mink), feline leukaemia virus, human
CC immunodeficiency virus, and hepatitis A virus (human). Genetic

CC prophylaxis methods using such constructs are useful for the transient
 CC protection of individuals against exposure to pathogens or toxins where
 CC no efficient vaccines are available, for inducing the synthesis of
 CC antibodies of a desired specificity for use in immunocompromised
 CC individuals, and for protecting an individual against an allergic
 CC reaction. In contrast to DNA vaccines, including anti- idiotypic vaccines,
 CC administration of plasmid-borne genes do not involve specific activation
 CC of the immune system in the individual. Prophylaxis against infectious
 CC diseases takes place without any side effects such as the transfer of
 CC infectious diseases or induction of hypersensitivity following repeated
 CC administration. The single chain antibodies will be systemically
 CC distributed by the body fluids and protect the individual if infection
 CC with the pathogen occurs. The present sequence represents a portion of a
 CC construct of the invention which encodes a single chain antibody, BUL.
 CC BUL is reactive to the fish pathogenic rhabdovirus, VHSV. BUL is derived
 CC from the variable regions of the VHSV-reactive murine monoclonal antibody
 CC 3fH10, and also contains the rainbow trout transforming growth factor
 CC beta (tgf-beta) signal peptide at the N- terminus (to ensure secretion of
 CC the single chain antibody) and the human kappa light chain constant
 CC domain (used as a tag to facilitate detection) at the C-terminus
 XX
 SQ Sequence 1135 BP; 298 A; 293 C; 273 G; 271 T; 0 U; 0 Other;

Query Match 89.5%; Score 287.4; DB 4; Length 1135;
 Best Local Similarity 93.5%; Pred. No. 1.2e-81;
 Matches 300; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
 QY 1 GACATTCAGATGACCCAGCTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA 60
 DB 478 GACATCGAGCTCACCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA 537
 QY 61 ATCATATGCTGGCAAGTCAGACCATTTGATATCATATGTTAGCATGTTATCAGCAGAAACCA 120
 DB 538 ATCATATGCTGGCAAGTCAGACCATTTGATATCATATGTTAGCATGTTATCAGCAGAAACCA 597
 QY 121 GGGAAATCTCTCAGCTCTGATTTATGTCGCCAACATTTGGCAGATGGGGTCCCATCA 180
 DB 598 GGGAAATCTCTCAGCTCTGATTTATGTCGCCAACATTTGGCAGATGGGGTCCCATCA 657
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCAGAAATTTCTTTTCAGATCAGCGCTACAGGCT 240
 DB 658 AGGTTTCAGTGGTGGATCTGGCAGAAATTTCTTTTCAGATCAGCGCTACAGGCT 717
 QY 241 GAAGATTTTGTAATTTATTACTGTCAACAGTTTACAGTTTCTCCATTACGTTTCGGTGTCT 300
 DB 718 GAAGATTTTGTAATTTATTACTGTCAACAGTTTACAGTTTCTCCATTACGTTTCGGAGGG 777
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 778 GGGACCAAGCTCGAGATCAAA 798

RESULT 11
 AAT04179
 ID AAT04179 standard; cDNA to mRNA; 1300 BP.
 XX
 AC AAT04179;
 DT 09-MAY-1996 (first entry)
 XX
 DE C179Fv-PP coding sequence.
 XX
 KW Antibody; human; influenza type A virus; H1N1; H2N2; H3N2; HA; diagnosis;
 KW haemagglutinin; variable heavy chain; therapy; ds.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 CDS 40..468
 FT /*tag= a
 FT /product= "variable heavy chain region"
 FT 106..465
 FT misc_feature
 FT /*tag= c

FT CDS
 FT 523..1290
 FT /*tag= b
 FT /product= "variable light chain-Fc fusion protein"
 FT 601..902
 FT /*tag= d
 FT /product= "variable light chain"
 FT 928..1101
 FT /*tag= e
 FT /note= "Fc binding domain-like structure"
 FT 1102..1275
 FT /*tag= f
 FT /note= "Fc binding domain-like structure"
 XX
 PN EP675199-A2.
 XX
 PD 04-OCT-1995.
 XX
 PF 14-MAR-1995; 95EP-00301664.
 XX
 PR 30-MAR-1994; 94JP-00082693.
 XX
 PA (TAKI) TAKARA SHUZO CO LTD.
 XX
 PI Yoshinobu O, Atsushi O, Hirofumi Y, Takashi T, Ikunoshin K;
 XX
 XX WPI; 1995-338286/44.
 DR P-PSDB; AAR92828, AAR92829.
 XX
 PT Gene encoding variable region of anti-human influenza A type virus
 PT antibody - useful for prodn. of artificial antibodies.
 XX
 XX Example 4; Page 32-35; 42pp; English.
 CC This sequence encodes the C179Fv-PP fusion polypeptide. The encoded
 CC sequence is an anti-human influenza A type virus antibody. The antibody
 CC recognises the stem region of the haemagglutinin (HA) molecule of the
 CC H1N1 and H2N2 subtypes of human influenza A type virus, and shows
 CC neutralisation activity against these two subtypes. The antibody shows no
 CC recognition of the H3N2 subtype. Artificial antibodies (such as this) and
 CC polypeptides are useful in the diagnosis and treatment of human
 CC influenza. As the antibodies recognise the stem region of the HA
 CC molecule, the influenza virus will be recognised even if the HA molecule
 CC changes. This provides an advantage over current vaccines, as the virus
 CC periodically alters it's HA molecule
 XX
 SQ Sequence 1300 BP; 393 A; 319 C; 289 G; 299 T; 0 U; 0 Other;

Query Match 89.4%; Score 287; DB 2; Length 1300;
 Best Local Similarity 93.7%; Pred. No. 1.7e-81;
 Matches 299; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
 QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA 60
 DB 589 GACATCGAGCTCACCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA 648
 QY 61 ATCATATGCTGGCAAGTCAGACCATTTGATATCATATGTTAGCATGTTATCAGCAGAAACCA 120
 DB 649 ATCATATGCTGGCAAGTCAGACCATTTGATATCATATGTTAGCATGTTATCAGCAGAAACCA 708
 QY 121 GGGAAATCTCTCAGCTCTGATTTATGTCGCCAACATTTGGCAGATGGGGTCCCATCA 180
 DB 709 GGGAAATCTCTCAGCTCTGATTTATGTCGCCAACATTTGGCAGATGGGGTCCCATCA 768
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCAGAAATTTCTTTTCAGATCAGCGCTACAGGCT 240
 DB 769 AGGTTTCAGTGGTGGATCTGGCAGAAATTTCTTTTCAGATCAGCGCTACAGGCT 828
 QY 241 GAAGATTTTGTAATTTATTACTGTCAACAGTTTACAGTTTCTCCATTACGTTTCGGTGTCT 300
 DB 829 GAAGATTTTGTAATTTATTACTGTCAACAGTTTACAGTTTCTCCATTACGTTTCGGTGTCT 888
 QY 301 GGGACCAAGCTGGAGCTGA 319

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Db      889 GGCACCAAGCTGGAGTCA 907
|||||
RESULT 12
ADZ51605
ID      ADZ51605 standard; DNA; 949 BP.
XX
AC      ADZ51605;
XX
DT      30-JUN-2005 (first entry)
XX
High-functioning protein related DNA SEQ ID NO 106.
DE
KW      cytostatic; hypotensive; nucleic acid library; cancer; neoplasm;
KW      hypertension; cardiovascular disease; ds; gene.
XX
OS      Unidentified.
XX
PN      WO2005035751-A1.
XX
PD      21-APR-2005.
XX
PF      15-OCT-2004; 2004WO-JP015290.
XX
PR      15-OCT-2003; 2003JP-00355702.
XX
PA      (UYKE-) UNIV KEIO.
XX
PI      Yanagawa H, Tabata N, Kojoh K;
XX
DR      WPI; 2005-346216/35.
XX
F-PSDB; ADZ51606.
XX
Selecting a high-functioning protein which is useful for treating cancer
PT      and hypertension, comprises selecting a protein interacting with a target
PT      molecule.
XX
PS      Disclosure; SEQ ID NO 106; 92pp; Japanese.
XX
The invention relates to a method of selecting a high-functioning protein
CC      which comprises constructing a protein-coding DNA library, transcribing
CC      DNAs, attaching a spacer to the 3' end of transcribed RNAs and
CC      constructing a library of molecules assigned to genotype and phenotype in
CC      a cell-free translation system, treating the library of assigned
CC      molecules, binding an assigned molecule to a target molecule and
CC      amplifying nucleic acid. The method is useful for selecting a high-
CC      functioning protein by selecting a protein interacting with a target
CC      molecule. The method is useful for manufacturing a protein which
CC      interacts with a target molecule. The single stranded antibodies are
CC      useful for treating cancer and hypertension. The method is rapid and
CC      efficient. The present sequence represents a high-functioning protein
CC      related DNA.
XX
SQ      Sequence 949 BP; 247 A; 221 C; 261 G; 220 T; 0 U; 0 Other;
Query Match      89.0%; Score 285.8; DB 14; Length 949;
Best Local Similarity 93.1%; Pred. NO. 3.6e-81;
Matches 299; Conservative 0; Mismatches 22; Indels 0; Gaps 0;
OY      1 GACATTCAGATCACCGAGTCTCTGCTCCAGTCGATCTCTGGAGAAAGTGCACC 60
Db      552 GACATTCAGATCACCGAGTCTCTGCTCCAGTTCGATCTCTGGAGAAAGTGCATC 611
OY      61 ATCATATGCTGGCAGTCAGACCATTTGATATGATGGTTAGCATGGTATCAGCAGAAACCA 120
Db      612 ATCATATGCTGGCAGTCAGACCATTTGATATGATGGTTAGCATGGTATCAGCAGAAACCA 671
OY      121 GGGAAATCTCTCAGCTCTGATTTATGTCGCCACCACTTGGCAGATGGGTGCCATCA 180
Db      672 GGGAAATCTCTCAGCTCTGATTTATGTCGCCACCACTTGGCAGATGGGTGCCATCA 731
OY      181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTACAGGCT 240
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Db      732 AGGTTTCAGTGGTAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCTACAGGCT 791
OY      241 GAAGATTTTGAATAATTACTGTCAACAAGTTTACAGATTCTCTCATTTCAGGTTTCGGTGCT 300
Db      792 GAAGATTTTGAAGTTTACTGTCAACAACACTTTACAGTACTCGGTGGACGTTGGTGGA 851
OY      301 GGGACCAAGCTGGAGCTGAAA 321
Db      852 GGCACCAAGCTGGAAATCAAA 872
RESULT 13
AAT04180
ID      AAT04180 standard; cDNA to mRNA; 1228 BP.
XX
AC      AAT04180;
XX
DT      09-MAY-1996 (first entry)
XX
scFv-PP coding sequence.
DE
KW      Antibody; human; influenza type A virus; H1N1; H2N2; H3N2; HA; diagnosis;
KW      haemagglutinin; variable heavy chain; therapy; ds.
XX
OS      Synthetic.
XX
Key      Location/Qualifiers
FT      CDS      40..1218
FT      *tag= a "scFv-PP"
FT      /product=
FT      106..471
FT      /tag= b
FT      /product= "variable heavy chain"
FT      529..830
FT      /tag= c
FT      /product= "variable light chain"
FT      856..1029
FT      /tag= d
FT      /note= "Fc binding domain-like structure"
FT      1030..1203
FT      /tag= e
FT      /note= "Fc binding domain-like structure"
XX
EP675199-A2.
XX
04-OCT-1995.
XX
14-MAR-1995; 95EP-00301664.
XX
30-MAR-1994; 94JP-00082693.
XX
(TAKI ) TAKARA SHUZO CO LTD.
XX
Yoshinobu O, Atsushi O, Hirofumi Y, Takashi T, Ikunoshin K;
XX
WPI; 1995-338286/44.
DR      P-PSDB; AAR82835.
XX
Gene encoding variable region of anti-human influenza A type virus
PT      antibody - useful for prodn. of artificial antibodies.
XX
Example 4; Page 36-38; 42pp; English.
XX
This sequence encodes the scFv-PP fusion polypeptide. The encoded
CC      sequence is an anti-human influenza A type virus antibody. The antibody
CC      recognises the stem region of the haemagglutinin (HA) molecule of the
CC      H1N1 and H2N2 subtypes of human influenza A type virus, and shows
CC      neutralisation activity against these two subtypes. The antibody shows no
CC      recognition of the H3N2 subtype. Artificial antibodies (such as this) and
CC      polypeptides are useful in the diagnosis and treatment of human
CC      influenza. As the antibodies recognise the stem region of the HA
CC      molecule, the influenza virus will be recognised even if the HA molecule
```

CC changes. This provides an advantage over current vaccines, as the virus
CC periodically alters it's HA molecule
XX
SQ Sequence 1228 BP; 362 A; 305 C; 282 G; 279 T; 0 U; 0 Other;
Query Match 88.9%; Score 285.4; DB 2; Length 1228;
Best Local Similarity 93.4%; Pred. No. 5.3e-81;
Matches 298; Conservative 0; Mismatches 21; Indels 0; Gaps 0;
QY 1 GACATTCAGATGACCCAGCTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
DB 517 GACATCGAGCTACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 576
QY 61 ATCATATGCTGCGAGTGCAGACCATTTGATATAGTGTAGCATGTTATGAGTATCAGCAGAAACCA 120
DB 577 ATCATATGCTGCGAGTGCAGACCATTTGATATAGTGTAGCATGTTATGAGTATCAGCAGAAACCA 536
QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCAACAACTTGGCAGATGGGTGCCATCA 180
DB 637 GGGAAATCTCTCAGCTCTGATTTATGCTGCAACAACTTGGCAGATGGGTGCCATCA 696
QY 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
DB 697 AGTTTCAGTGGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 756
QY 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCCTCCATTTACAGTTCCTGGTGGT 300
DB 757 GAAGATTTTGTAAATTTACTGTCAACAACTTACAGTTCCTCCATTTACAGTTCCTGGTGGT 816
QY 301 GGGACCAAGCTGGAGCTGA 319
DB 817 GGCACCAAGCTGGAGCTGA 835

RESULT 14

AAK99183
ID AAK99183 standard; DNA; 324 BP.
AC AAK99183;
XX
DT 12-JUN-2002 (first entry)
XX
DE 324nt DNA sequence of the invention.
XX
KW Mouse monoclonal antibody; murine; surface antigen pres1 epitope;
KW hepatitis B virus; gene; ds.
XX
OS Unidentified.
FH Key
FT Location/Qualifiers
FT 1..324
FT /*tag= a
FT /product= "Protein of the invention"
XX
PN KR9908647-A.
XX
PD 05-FEB-1999.
XX
PP 02-JUL-1997; 97KR-00030694.
XX
PR 02-JUL-1997; 97KR-00030694.
XX
PA (KORE-) KOREA RES INST CHEM TECHNOLOGY.
XX
PI Hong HJ, Ryoo CJ;
XX
WPI; 2000-168375/15.
DR P-PSDB; AAO20094.
XX
PT Changeable region of mouse monoclonal antibody recognizing surface
PT antigen pres1 epitope of hepatitis B virus and gene.
XX
PS Disclosure; Page 9; 14pp; Korean.

XX The invention relates to a changeable region of mouse monoclonal antibody
CC recognising surface antigen pres1 epitope of hepatitis B virus and gene.
CC This polynucleotide sequence relates to a 324nt DNA of the invention
XX
SQ Sequence 324 BP; 86 A; 77 C; 78 G; 83 T; 0 U; 0 Other;
Query Match 88.5%; Score 284.2; DB 3; Length 324;
Best Local Similarity 92.8%; Pred. No. 7.5e-81;
Matches 298; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GATATCGTGTCTCACTCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
QY 61 ATCATATGCTGCGAGTGCAGACCATTTGATATAGTGTAGCATGTTATGAGTATCAGCAGAAACCA 120
DB 61 ATCATATGCTGCGAGTGCAGACCATTTGATATAGTGTAGCATGTTATGAGTATCAGCAGAAACCA 120
QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCAACAACTTGGCAGATGGGTGCCATCA 180
DB 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCAACAACTTGGCAGATGGGTGCCATCA 180
QY 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
DB 181 AGTTTCAGTGGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
QY 241 GAAGATTTTGTAAATTTACTGTCAACAAAGTTTACAGTTCCTCCATTTACAGTTCCTGGTGGT 300
DB 241 GAAGATTTTGTAAATTTACTGTCAACAACTTACAGTTCCTCCATTTACAGTTCCTGGTGGT 300
QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGTTGGAAATAAAA 321
RESULT 15
ADZ51609
ID ADZ51609 standard; DNA; 949 BP.
XX
AC ADZ51609;
XX
DT 30-JUN-2005 (first entry)
XX
DE High-functioning protein related DNA SEQ ID NO 110.
XX
KW cytostatic; hypotensive; nucleic acid library; cancer; neoplasm;
KW hypertension; cardiovascular disease; ds; gene.
XX
OS Unidentified.
XX
PN WO2005035751-A1.
XX
PD 21-APR-2005.
XX
PF 15-OCT-2004; 2004WO-JP015290.
XX
PR 15-OCT-2003; 2003JP-00355702.
XX
PA (UYKE-) UNIV KEIO.
XX
PI Yanagawa H, Tabata N, Kojoh K;
XX
WPI; 2005-346216/35.
DR P-PSDB; ADZ51610.
XX
PT Selecting a high-functioning protein which is useful for treating cancer
PT and hypertension, comprises selecting a protein interacting with a target
PT molecule.
XX
PS Disclosure; SEQ ID NO 110; 92pp; Japanese.
XX
CC The invention relates to a method of selecting a high-functioning protein

CC which comprises constructing a protein-coding DNA library, transcribing
CC DNAs, attaching a spacer to the 3' end of transcribed RNAs and
CC constructing a library of molecules assigned to genotype and phenotype in
CC a cell-free translation system, treating the library of assigned
CC molecules, binding an assigned molecule to a target molecule and
CC amplifying nucleic acid. The method is useful for selecting a high-
CC functioning protein by selecting a protein interacting with a target
CC molecule. The method is useful for manufacturing a protein which
CC interacts with a target molecule. The single stranded antibodies are
CC useful for treating cancer and hypertension. The method is rapid and
CC efficient. The present sequence represents a high-functioning protein
CC related DNA.
XX
SQ Sequence 949 BP; 248 A; 218 C; 259 G; 224 T; 0 U; 0 Other;

Query Match 88.0%; Score 282.6; DB 14; Length 949;
Best Local Similarity 92.5%; Pred. No. 3.8e-80;
Matches 297; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCACTCTGGGAGAAAGTGCACC 60
DB ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||
552 GACATTCAGATGACAGATTTCTGCTCCAGTCTGCACTCTGGGAGAAAGTGCATC 611
QY 61 ATCACATGCTGCAAGTCAGACCATGTATACATGGTTAGCATGGTATCAGCAGAAACCA 120
DB ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||
612 ATCACATGCTGCAAGTCAGACCATGGTATACATGGTTAGCATGGTATCAACAGAAACCA 671
QY 121 GGGAAATCTCTCAGCTCTCTGATTATGCTGCCACCAACTTGGCAGATGGGTCCCATCA 180
DB ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||
672 GGGAAATTTCTCAGCTCTCTGATTATGCTGCAACCAAGCTGGGCAAGATGGGGTCCCATCA 731
QY 181 AGGTTCAAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGACGCTACAGGCT 240
DB ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||
732 AGGTTCAAGTGGTATGGATTTGGCACAATAATTTCTTTCAAGATCAGACGCTACAGGCT 791
QY 241 GAAGATTTTGAATTTATTTACTCTCAACAGTTTACAGTTCTCCATTACAGTTTGGTGTCT 300
DB ||||||||||| ||||||||||| ||||||||||| ||||||||||| |||||||||||
792 GAAGATTTTGAATTTATTTACTCTCAACAACTTTACAGTACTCCGTGGACGTTTGGTGA 851
QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB ||||||||||| |||||
852 GGCACCAAGCTGGAAATCAAA 872

Search completed: April 18, 2006, 18:33:15
Job time : 460 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 18, 2006, 18:25:30 ; Search time 3805 Seconds
(without alignments)
3947.084 Million cell updates/sec

Title: US-10-764-140-1
Perfect score: 321
Sequence: 1 gacatcagatgacccagtc.....ggaccagctggagctgaaa 321

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST.*

- 1: gb_est1.*
- 2: gb_est2.*
- 3: gb_est3.*
- 4: gb_hic.*
- 5: gb_est4.*
- 6: gb_est5.*
- 7: gb_est6.*
- 8: gb_est7.*
- 9: gb_gss1.*
- 10: gb_gss2.*
- 11: gb_gss3.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	270.8	84.4	700	10	AG319984 Mus muscu
2	248.2	77.3	553	2	BE309991 601091717
3	237	73.8	603	6	CF111270 Shultzomi
4	229.8	71.6	896	2	BG969371 602836854
5	226.6	70.6	939	4	AK002514 Mus muscu
6	226.6	70.6	964	2	BG966302 602832780
7	221.8	69.1	577	2	BE305476 601099542
8	221.8	69.1	721	2	BG967689 602833496
9	221.8	69.1	797	6	CB987347 AGENCOURT
10	221.2	68.9	727	9	BZ120378 CH230-317
11	220.2	68.6	599	2	BE287315 601093986
12	220.2	68.6	683	6	CB984699 AGENCOURT
13	220.2	68.6	691	2	BE307937 601096061
14	220.2	68.6	829	7	CO575799 AGENCOURT
15	220.2	68.6	867	2	BG754732 602714301
16	218.6	68.1	422	1	AW407904 UI-HF-BLO
17	218.6	68.1	472	6	CD702614 EST19139
18	218.6	68.1	525	3	BP422398 BP422398
19	218.6	68.1	525	6	CD709957 EST26484
20	218.6	68.1	588	6	CD709469 EST25996
21	218.6	68.1	616	6	CD709768 EST28295
22	218.6	68.1	697	6	CD699896 EST16420

23	218.6	68.1	805	3	BI454240
24	218.6	68.1	823	2	BF580331
25	217.2	67.7	754	2	BG967635 602833433
26	217	67.6	431	1	AW406886 UI-HF-BLO
27	217	67.6	460	1	AW405906 UI-HF-BLO
28	217	67.6	465	1	AJ548351 AJ548351
29	217	67.6	493	1	AW405753 UI-HF-BLO
30	217	67.6	499	6	CD685478 EST1998 h
31	217	67.6	522	3	BP421572 BP421572
32	217	67.6	568	6	CD710582 EST27109
33	217	67.6	693	6	CD684441 EST961 hu
34	217	67.6	724	6	CB959008 AGENCOURT
35	217	67.6	743	6	CB957909 AGENCOURT
36	217	67.6	769	6	CB957759 AGENCOURT
37	217	67.6	793	6	CB987506 AGENCOURT
38	217	67.6	799	6	CB984750 AGENCOURT
39	217	67.6	842	6	CB986591 AGENCOURT
40	217	67.6	886	2	BG756818 602710291
41	217	67.6	933	2	BG533956 603553057
42	217	67.6	1100	2	BF663472 602144635
43	215.4	67.1	471	6	CD702236 EST18760
44	215.4	67.1	495	6	CD708794 EST25321
45	215.4	67.1	574	6	CD710508 EST27035

ALIGNMENTS

RESULT 1	AG319984	AG319984	Mus musculus molossinus DNA, clone:MSMg01-105L04.T7, genomic survey	700 bp	DNA	linear	GSS 18-DEC-2004
LOCUS	AG319984	AG319984	sequence.				
ACCESSION	AG319984.1	GI:47892941					
VERSION	GSS.						
KEYWORDS	Mus musculus molossinus (Japanese wild mouse)						
SOURCE	Mus musculus molossinus						
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.						
REFERENCE	1						
AUTHORS	Abu, K., Noguchi, H., Tagawa, K., Yuzuriha, M., Toyoda, A., Kojima, T., Ezawa, K., Saitou, N., Hattori, M., Sakaki, Y., Moriaki, K. and Shiroishi, T.						
TITLE	Contribution of Asian mouse subspecies Mus musculus molossinus to genomic constitution of strain C57BL/6J, as defined by BAC-end sequence-SNP analysis						
JOURNAL	Genome Res. 14 (12), 2439-2447 (2004)						
PUBMED	15574823						
REFERENCE	2	(bases 1 to 700)					
AUTHORS	Hattori, M., Toyoda, A., Noguchi, H., Kojima, T. and Sakaki, Y.						
TITLE	Direct Submission						
JOURNAL	Submitted (17-NOV-2003) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa, 230-0045, Japan (E-mail: hattori@gsc.riken.jp, URL: http://hgp.gsc.riken.go.jp/.						
COMMENT	Tel: 81-45-503-9111, Fax: 81-45-503-9170) Clones are derived from the mouse BAC library MSMg01. For BAC library availability, please contact Kunya Abe (abe@cc.riken.jp). Tsukuba Institute, Bio Resource Center, The Institute of Physical and Chemical Research (RIKEN) 3-1-1 Koyada, Tsukuba, 305-0074 Japan phone: 81-298-36-9189, fax: 81-298-36-9199 e-mail: abe@cc.riken.jp PRIMERS Sequencing : T7 LIBRARY Vector : pBACe3.6 R.Site 1 : pCORI R.Site 2 : pCORI FEATURES Location/Qualifiers 1. .700						

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/organism="Mus musculus molossinus"  
/mol_type="genomic DNA"  
/sub_species="molossinus"  
/db_xref="taxon:57486"  
/clone="MSMg01-105L04.T7"  
/sex="male"  
/tissue_type="mixture of kidney and spleen"  
/clone_lib="MSMg01 Mouse Male BAC Library"
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Query Match      84.4%; Score 270.8; DB 10; Length 700;  
Best Local Similarity 95.9%; Pred. No. 2.1e-72;  
Matches 278; Conservative 0; Mismatches 12; Indels 0; Gaps 0;  
  
QY 1 GACATTTCAGATGACCCAGTCTCTCGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 60  
DB 91 GACATTTCAGATGACCCAGTCTCTCGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 150  
  
QY 61 ATCACAATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120  
DB 151 ATCACAATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGTTATCAGCAGAAACCA 210  
  
QY 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180  
DB 211 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 270  
  
QY 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240  
DB 271 AGTTTCAGTGGTATGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 330  
  
QY 241 GAAGATTTTGTAAATTTACTGTCTCAACAAGTTTACAGTTCTCCATTTCAC 290  
DB 331 GAAGATTTTGTAAATTTACTGTCTCAACAAGTTTACAGTTCTCCATTTCAC 380
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RESULT 2

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BE309991  
LOCUS      60109171F1 NCI_CGAP_Mam5 Mus musculus cDNA clone IMAGE:3486245 5',  
DEFINITION mRNA sequence.  
ACCESSION BE309991  
VERSION    BE309991.1 GI:9169034  
KEYWORDS   EST.  
SOURCE      Mus musculus (house mouse)  
ORGANISM    Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;  
Sciurognathi; Muridea; Muridae; Murinae; Mus.  
REFERENCE   NIH-MGC http://mgc.nci.nih.gov/.  
AUTHORS     National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL     Unpublished (1999)  
COMMENT      Contact: Robert Strausberg, Ph.D.  
             Email: c9apbs-r@mail.nih.gov  
             Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys  
             cDNA Library Preparation: Life Technologies, Inc.  
             cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
             DNA Sequencing by: Incyte Genomics, Inc.  
             Clone distribution: MGC clone distribution information can be  
             found through the I.M.A.G.E. Consortium/LLNL at:  
             http://image.llnl.gov  
             Plate: LLAM8522 row: b column: 06  
             High quality sequence start: 48  
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FEATURES

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/lab_host="DH10B"  
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/note="Organ: mammary; Vector: pCMV-SPORT6; Site 1: SalI;  
Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT.  
Library constructed by Life Technologies. Investigators  
providing samples: Lothar Hennighausen/Robin Humphreys,  
NIH"
```

ORIGIN

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Query Match      77.3%; Score 248.2; DB 2; Length 553;  
Best Local Similarity 93.2%; Pred. No. 1.9e-65;  
Matches 303; Conservative 0; Mismatches 18; Indels 4; Gaps 4;  
  
QY 1 GACATTTCAGATGACCCAGTCTCTCGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 59  
DB 46 GACATTTCAGATGACCCAGTCTCTCGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 105  
  
QY 60 CA-TCATATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGTTATCAGCAGAAA 117  
DB 106 CAGTCACATGCTGGCAAGTCAGACCAATTGATATACATGTTAGCATGTTATCAGCAGAAA 165  
  
QY 118 CCAGGGAATCTCTCAGTCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCA 177  
DB 166 CCAGGGAATCTCTCAGTCTCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCA 225  
  
QY 178 TCAAGTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAG 237  
DB 226 TCAAGTTCAGTGGTATGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAG 285  
  
QY 238 GCTGAAGATTTGTAAATTTACTGTCTCAACAA-GTTTACAGTTCTCCATTTCACGTTCCG 296  
DB 286 GCTGAAGATTTGTAACTTTACTGTCTCAACAACTTTTACAGTACTCCGTGGACGTTCCG 345  
  
QY 297 TGCTGGGACCAAGCTGGAGCTGAAA 321  
DB 346 TGGAGGCCACCAAGCTGGAAATCAAA 370
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RESULT 3

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CF111270  
LOCUS      603 bp mRNA linear EST 23-JUL-2003  
DEFINITION Shultzomica04521 Rat lung airway and parenchyma cDNA libraries  
ACCESSION CF111270  
VERSION    CF111270.1 GI:33167972  
KEYWORDS   EST.  
SOURCE      Rattus norvegicus (Norway rat)  
ORGANISM    Rattus norvegicus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;  
Sciurognathi; Muridea; Muridae; Murinae; Rattus.  
REFERENCE   1 (bases 1 to 603)  
AUTHORS     Shultz, M.A., Zhang, L., Gu, Y.-Z., Baker, G.L., Fannuchi, M.V.,  
             Padua, A.M., Gurske, W.A., Morin, D., Penn, S.G., Jovanovich, S.B.,  
             Plopper, C.G. and Buckpitt, A.R.  
TITLE        Gene expression analysis in response to lung toxicants: I.  
             Sequencing and microarray development  
JOURNAL      Am. J. Respir. Cell Mol. Biol. 30 (3), 296-310 (2004)  
PUBMED      12947022  
COMMENT      Contact: Shultz MA  
             Dept. of Molecular Biosciences, School of Veterinary Medicine  
             University of California, Davis  
             1311 Haring Hall, One Shields Avenue, Davis, CA 95616, USA  
             Tel: 530 752 0793  
             Fax: 530 752 4698  
             Email: mashultz@ucdavis.edu  
             Average Phred score is 20 or better. All poor quality data (Phred <  
             20) and vector/linker sequence has been removed.  
             High quality sequence stop: 603.  
             Location/Qualifiers  
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/clone="Cont:19432"
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/tissue_type="airway or parenchyma"
/dev_stage="adult"
/clone_lib="Rat lung airway and parenchyma cDNA libraries"
/notes="Organ: lung; Vector: pGEM-11zf(-); Site: 1: Eco RI;
Site_2: Not I; mRNA was isolated from microdissected rat
lung airways and parenchyma tissues."

ORIGIN	Query Match	73.8%;	Score 237;	DB 6;	Length 603;
	Best Local Similarity	85.4%;	Pred. No. 5.9e-62;		
	Matches 275;	Conservative 0;	Mismatches 46;	Indels 1;	Gaps 1;
QY	1	GACATTCAGATGACCCAGTCTCTCT-GCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA	59		
	41	GACATCCAGATGACAGATCTCTCTGGCTCCCTGCTGCACTCTGGAGAAATTTGCAC	100		
QY	60	CATCACATGCTGGCAAGTCAGACCATTTGATATGATGTTAGCATGGTATCAGCAGAAACC	119		
	101	GATCACATGCGCAGCAAGCCAGGACATTTGGTAATTTGGTTAACTGTTATCAGCAGAAACC	160		
QY	120	AGGGAATCTCTCAGCTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATC	179		
	161	AGGNAATCTCTCAGCTCTGATCTATGTTGGTGAACCAAGCTTGGCAGATGGGTCCCATC	220		
QY	180	AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCTTACAGGC	239		
	221	AGGTTTCAGGCGAGTAGATCTGGCACAAGTATTTCTTCAAGATCAGCAGCTTACAGGC	280		
QY	240	TGAAGATTTTGTAAATTTATTTACTGTCAACAAGTTTACAGTTCTCCATTCACGTTCCGTTGC	299		
	281	TGAAGATCTCTGGAATCTATTACTGTCTACAGAGTTATAGTACTCCGTGGAGCTTCGTTGC	340		
QY	300	TGGACCAAGCTGGAGCTGAAA	321		
	341	AGGCACCAAGCTGGAATTGAAA	362		

RESULT 4	BG969371	896 bp	mRNA	linear	EST 12-JUN-2001
LOCUS	602836854F1 NCI_CGAP_Kid14	Mus musculus	cDNA clone	IMAGE:4971397	
DEFINITION	5', mRNA sequence.				
ACCESSION	BG969371				
VERSION	BG969371.1	GI:14357008			
KEYWORDS	EST.				
SOURCE	Mus musculus (house mouse)				
ORGANISM	Mus musculus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				
REFERENCE	1 (bases 1 to 896)				
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .				
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)				
JOURNAL	Unpublished (1999)				
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov Tissue Procurement: Jeffrey E. Green, M.D. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLNL0956 row: k column: 14 High quality sequence stop: 864.				
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	Best Local Similarity	82.2%;	Pred. No. 1.1e-59;		
	Matches 264;	Conservative 0;	Mismatches 57;	Indels 0;	Gaps 0;
QY	1	GACATTCAGATGACCCAGTCTCTCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA	60		
	79	GACATCCAGATGACATGCTCAGCTCCAGCTCCCTATCTGATCTGGGAGAAAGTGTCA	138		
QY	61	ATCACATGCTGGCAAGTCAGACCATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA	120		
	139	ATCACATGTCGACCAAGTCAGAAATTTTACAGTAATTTAGCATGGTATCAGCAGAAACAG	198		
QY	121	GGGAATCTCTCAGCTCTGATTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA	180		
	199	GGAAAATCTCTCAGCTCTGATGTTATGCTGCCACCACTTGGCAGATGGGTCCCATCA	258		
QY	181	AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGCAGCTTACAGGC	240		
	259	AGGTTTCAGTGGCAGTGGATCAGCACAAGTATTTCTTCAAGATCAGCAGCTTACAGGC	318		
QY	241	GAAGATTTTGTAAATTTATTTACTGTCAACAAGTTTACAGTTCTCCATTCACGTTCCGTTGC	300		
	319	GAAGATTTTGGGAATTTATTACTGTCAACATTTTGGGAGTATCCGCTCAGTTCCGTTGC	378		
QY	301	GGGACCAAGCTGGAGCTGAAA	321		
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AK002514	939 bp	mRNA	linear	HTC 03-APR-2004	
Mus musculus adult male kidney cDNA, RIKEN full-length enriched library, clone:0610010P20 product:immunoglobulin kappa chain variable 28 (V28), full insert sequence.					
AK002514					
AK002514.1	GI:12832550	Mus musculus (house mouse)			
HTC; CAP trapper.					
Mus musculus					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muridae; Murinae; Mus.					
1					
Carninci, P. and Hayashizaki, Y.					
High-efficiency full-length cDNA cloning					
Meth. Enzymol. 303, 19-44 (1999)					
10349636					
2					
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.					
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes					
Genome Res. 10 (10), 1617-1630 (2000)					
11042159					
3					
Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Katsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishino, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J.,					

/strain="FVB/N"
/db_xref="taxon:10090"
/clone="IMAGE:4971397"
/lab_host="DH10B (T1 phage-resistant)"
/clone_lib="NCI_CGAP Kid14"
/notes="Organ: kidney; Vector: pCMV-SPORT6; Site 1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert size 1.75 Kb. Constructed by Life
Technologies. Note: this is a NCI_CGAP Library. |"

/lab host="DH10B (T1 phage-resistant)"
 /clone lib="NCI_CGAP_Co24"
 /notes-Organ: colon; Vector: pCMV-SPORT6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.
 Average insert size 1.6 kb. Constructed by Life
 Technologies. Note: this is a NCI_CGAP Library."

ORIGIN

Query Match 70.6%; Score 226.6; DB 2; Length 964;
 Best Local Similarity 81.6%; Pred. No. 1.1e-59;
 Matches 262; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGCACC 60
 |||||
 Db 76 GACATTCAGATGACTCAGTCTCCAGCTCTCTATCTGTATCTGTGGGAGAACTGTCCACC 135
 |||||
 QY 61 ATCAGATGCTGGCAAGTCAGACATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA 120
 |||||
 Db 136 ATCAGATGCTGGCAAGTCAGATATTTACAGTAATTTAGCATGGTATCAGCAGAAACAG 195
 |||||
 QY 121 GGGAAATCTCTCAGTCTCTGATTTATGTCGCCAACCAACTTGGCAGATGGGTGCCATCA 180
 |||||
 Db 196 GGGAAATCTCTCAGTCTCTGATTTATGTCGCCAACCAACTTGGCAGATGGGTGCCATCA 255
 |||||
 QY 181 AGTTTCAGTGGCAGTGGATCGCACAAATTTTCTTCAAGATCAGCAGCTACAGGCT 240
 |||||
 Db 256 AGTTTCAGTGGCAGTGGATCGGCACACATATTCCTCTCAAGATCAACAGCTGCAGTCT 315
 |||||
 QY 241 GAAGATTTTGTAAATATTACTCTCAACAAGTTTACAGTTCTCATTCAAGTTTCGGTGCT 300
 |||||
 Db 316 GAAGATTTTGGGAATTTTCTCTCAACATTTTGGGTACTCTCGTGGACGTTTCGGTGA 375
 |||||
 QY 301 GGGACCAAGCTGAGCTGAAA 321
 |||||
 Db 376 GGCACCAAGCTGGAATCAA 396
 |||||

RESULT 7

BE305476
 LOCUS 601099542F1 NCI_CGAP_Lu29 Mus musculus cDNA clone IMAGE:3492034 5',
 DEFINITION mRNA sequence.
 ACCESSION BE305476
 VERSION BE305476.1 GI:9157223
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidea; Muridae; Murinae; Mus.
 1 (bases 1 to 577)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Gilbert Smith, Ph.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLAM8537 row: c column: 11
 High quality sequence stop: 576.
 Location/Qualifiers
 1..577

FEATURES

source

/organism="Mus musculus"
 /mol_type="mRNA"
 /strain="Czech II"
 /db_xref="taxon:10090"
 /clone="IMAGE:3492034"
 /tissue_type="spontaneous tumor, metastatic to mammary."

Stem cell origin."
 /lab host="DH10B"
 /clone lib="NCI_CGAP_Lu29"
 /notes-Organ: lung; Vector: pCMV-SPORT6; Site 1: SalI;
 Site 2: NotI; Cloned unidirectionally. Primer: Oligo dt.
 Library constructed by Life Technologies. Investigator
 providing samples: Gilbert Smith, NIH"

ORIGIN

Query Match 69.1%; Score 221.8; DB 2; Length 577;
 Best Local Similarity 80.7%; Pred. No. 3e-57;
 Matches 259; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGCACC 60
 |||||
 Db 56 GACATTCAGATGACTCAGTCTCCAGCTCTCTATCTGTATCTGTGGGAGAACTGTCCACC 115
 |||||
 QY 61 ATCAGATGCTGGCAAGTCAGACATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA 120
 |||||
 Db 116 ATCAGATGCTGGCAAGTCAGATATTTACAGTAATTTAGCATGGTATCAGCAGAAACAG 175
 |||||
 QY 121 GGGAAATCTCTCAGTCTCTGATTTATGTCGCCAACCAACTTGGCAGATGGGTGCCATCA 180
 |||||
 Db 176 GGGAAATCTCTCAGTCTCTGATTTATGTCGCCAACCAACTTGGCAGATGGGTGCCATCA 235
 |||||
 QY 181 AGTTTCAGTGGCAGTGGATCGCACAAATTTTCTTCAAGATCAGCAGCTACAGGCT 240
 |||||
 Db 236 AGTTTCAGTGGCAGTGGATCGGCACACATATTCCTCTCAAGATCAACAGCTGCAGCT 295
 |||||
 QY 241 GAAGATTTTGTAAATATTACTCTCAACAAGTTTACAGTTCTCATTCAAGTTTCGGTGCT 300
 |||||
 Db 296 GAAGATTTTGGGAGTTTATTACTGTCAACATCATTTATGGTACTCTCCGACGTTTCGGTGA 355
 |||||
 QY 301 GGGACCAAGCTGAGCTGAAA 321
 |||||
 Db 356 GGCACCAAGCTGGAATCAA 376
 |||||

RESULT 8

BE305476
 LOCUS 602833496F1 NCI_CGAP_Co24 Mus musculus cDNA clone IMAGE:4988038 5',
 DEFINITION mRNA sequence.
 ACCESSION BE305476
 VERSION BE305476.1 GI:14355326
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muroidea; Muridae; Murinae; Mus.
 1 (bases 1 to 721)
 NIH-MGC http://mgc.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Jeffrey E. Green, M.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLAM10999 row: p column: 23
 High quality sequence stop: 720.
 Location/Qualifiers
 1..721

FEATURES

source

/organism="Mus musculus"
 /mol_type="mRNA"
 /strain="FVB/N"
 /db_xref="taxon:10090"
 /clone="IMAGE:4988038"

/lab_host="DH10B (T1 phage-resistant)"
 /clone_lib="NCI CGAP Co24"
 /note="Organ: CGAP Vector: pCMV-SPORT6; Site 1: NotI;
 Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
 Average insert size 1.6 kb. Constructed by Life
 Technologies. Note: this is a NCI_CGAP Library."

ORIGIN

Query Match 69.1%; Score 221.8; DB 2; Length 721;
 Best Local Similarity 80.7%; Pred. No. 3.2e-57;
 Matches 259; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 GACATTTCAGATGACCCAGCTCTCTGCTCCAGTCTGTCATCTCTGGGAGAAAGTGTCCACC 60
 DB 81 GACATCCAGATGACTCAGTCTCCAGCTCCCTATCTGTCATCTGTGGAGAAAGTGTCCACC 140
 QY 61 ATCATATGTCGAGCAAGTCAGCAATTTTACAGTTATTTAGCATGGTATTCAGCAGAAACAG 200
 DB 141 ATCATATGTCGAGCAAGTCAGCAATTTTACAGTTATTTAGCATGGTATTCAGCAGAAACAG 200
 QY 121 GGAATATCTCTCAGCTCCTGATTTATGCTGCCCAACTTGGCAGATGGGTGCCATCA 180
 DB 201 GGAATATCTCTCAGCTCCTGATTTATGCTGCCCAACTTGGCAGATGGGTGCCATCA 260
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATTTTCTTTCAAGATCAGCAGCTTACAGGCT 240
 DB 261 AGGTTTCAGTGGCAGTGGATCTGGCACAATTTTCTTTCAAGATCAGCAGCTTACAGGCT 320
 QY 241 GAAGATTTTGTAAATTTATCTGTCGCAAGTTTACAGTTTCCATTCAGTTTCGGTGTCT 300
 DB 321 GAAGATTTTGTAAATTTATCTGTCGCAAGTTTACAGTTTCCATTCAGTTTCGGTGTCT 380
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 381 GGGACCAAGCTGGAGCTGAAA 401

RESULT 9

CB987347
 LOCUS CB987347 797 bp mRNA linear EST 01-MAY-2003
 DEFINITION AGENCOURT_13591809 NIH_MGC_184 Homo sapiens cDNA clone
 IMAGE:30326300 5', mRNA sequence.
 CB987347
 VERSION CB987347.1 GI:30281867
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homiidae; Homo.
 1 (bases 1 to 797)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 CONTACT: Robert Strausberg, Ph.D.
 Email: cgapbs@mail.nih.gov
 Tissue Procurement: CLONTECH Laboratories, Inc.
 cDNA Library Prepared by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone Distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: NDCM133 row: h column: 21
 High quality sequence stop: 437.
 Location/Qualifiers
 1..797
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:30326300"
 /lab_host="DH10B (T1 phage-resistant)"
 /clone_lib="NCI_MGC_184"

FEATURES

source

/note="Organ: Pooled-Glandular; Vector: pDNR-LIB; Site 1:
 SfiI (ggccattatggcc); Site 2: SfiI (ggccgctcgcc);
 Library is oligo-dT primed and directionally cloned. cDNA
 was prepared from a glandular pool of tissues from thyroid,
 parathyroid, adrenal, cortex and pineal gland. 5' and 3'
 adaptors were used in cloning as follows: 5' adaptor
 sequence: 5'-CAGCGCCATTATGGC-3' and 3' adaptor sequence:
 5'-ATTCTAGAGCGGAGCGCGGACATG-dT(30)BN-3' (where B = A,
 C, or G and N = A, C, G, or T). Average insert size 1.38
 kb (range 0.60-3.5 kb). 15/15 colonies contained inserts
 by PCR. This library was enriched for full-length clones
 and was constructed by Clontech Laboratories (Palo Alto,
 CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 69.1%; Score 221.8; DB 6; Length 797;
 Best Local Similarity 80.7%; Pred. No. 3.3e-57;
 Matches 259; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 1 GACATTTCAGATGACCCAGCTCTCTGCTCCAGTCTGTCATCTCTGGGAGAAAGTGTCCACC 60
 DB 99 GACATCCAGATGACCCAGCTCTCCATCTCTGTCATCTGTAGGAGACAGAGTCCACC 158
 QY 61 ATCATATGTCGAGCAAGTCAGCAATTTTACAGTTATTTAGCATGGTATTCAGCAGAAACCA 120
 DB 159 ATCATATGTCGAGCAAGTCAGCAATTTTACAGTTATTTAGCATGGTATTCAGCAGAAACCA 218
 QY 121 GGAATATCTCTCAGCTCCTGATTTATGCTGCCCAACTTGGCAGATGGGTGCCATCA 180
 DB 219 GGAATATCTCTCAGCTCCTGATTTATGCTGCCCAACTTGGCAGATGGGTGCCATCA 278
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATTTTCTTTCAAGATCAGCAGCTTACAGGCT 240
 DB 279 AGGTTTCAGTGGCAGTGGATCTGGCACAATTTTCTTTCAAGATCAGCAGCTTACAGGCT 338
 QY 241 GAAGATTTTGTAAATTTATCTGTCGCAAGTTTACAGTTTCCATTCAGTTTCGGTGTCT 300
 DB 339 GAAGATTTTGTAAATTTATCTGTCGCAAGTTTACAGTTTCCATTCAGTTTCGGTGTCT 398
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 399 GGGACCAAGCTGGAGCTGAAA 419

RESULT 10

BZ120378
 LOCUS BZ120378 727 bp DNA linear GSS 11-OCT-2002
 DEFINITION CH230-317B9.TV CHORI-230 Segment 2 Rattus norvegicus genomic clone
 CH230-317B9, genomic survey sequence.
 BZ120378
 ACCESSION BZ120378
 VERSION BZ120378.1 GI:23761325
 KEYWORDS GSS.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridae; Murinae; Rattus.
 1 (bases 1 to 727)
 Zhao, S., Shetty, J., Shatsman, S., Tsagaye, G., Geer, K.,
 Shvartsbeyn, A., Gebregorgis, E., Overton, L., Russell, D., Chen, D.,
 Riggs, F., de Jong, P. and Fraser, C.M.
 Rat BAC End Sequences from Library CHORI-230 MboI segment
 Unpublished (1999)
 Other GSSs: CH230-317B9.TJ
 Contact: Shaying Zhao
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0200
 Fax: 301 838 0208
 Email: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (http://www.chori.org/bacpac/rat230.htm). For BAC library

availability, please contact Pieter de Jong (pdejong@mail.cho.org).

Clones may be purchased from BACPAC Resources
(http://www.choi.org/bacpac/orering_information.htm). BAC end
page: http://www.tigr.org/tdb/bac_ends/rat/bac_end_intro.html
Plate: 317 row: B column: 9

Seq primer: T7

Class: BAC ends

Location/Qualifiers

1..727
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/strain="BN/SnHed/MCW"
/db_xref="taxon:10116"
/clone="CH230-317B9"
/sex="Female"
/cell_type="Brain"
/note="CHORI-230 Segment 2"
/note="Vector: pTARBAC1.3; Site 1: MboI; Site 2: MboI;
CHORI-230 Rat (BN/SnHed/MCW) BAC library produced by
Pieter de Jong"

ORIGIN

Query Match 68.9%; Score 221.2; DB 9; Length 727;
Best Local Similarity 85.2%; Pred. No. 4.9e-57;
Matches 247; Conservative 0; Mismatches 43; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCGATCTCTGGGAGAAAGTGTCAAC 60
|||||
Db 83 GACATTCAGATGACACAGTCTCTGCTCCCTCTGCTGTCATCTCTGGATGAATGTCAAC 142
|||||
QY 61 ATCACATGCTGCGAGTCAGACCATGTATGATGATGTTAGCATGTTATGACGATGTTATGACGAGAAACCA 120
|||||
Db 143 ATCACATGCGAGCAAGCCGAGCATTTGGTAATTTGGTTAGCATGTTATGACGAGAAACCA 202
|||||
QY 121 GCGAAATCTCTCAGCTCTCTGATTTATGCTGCCACCAACTTGGCAGATGGGTCCCATCA 180
|||||
Db 203 GCGAAATCTCTCAGCTCTCTGATCTATGTTGCAACAGCTTGGCAGATGGGTCCCATCA 262
|||||
QY 181 AGTTTCAGTGGCAGTGTATCGGCACAAAATTTCTTTCAAGATCAGCAGCCCTACAGGCT 240
|||||
Db 263 AGTTTCAGCGCAGTGTATCGGCACACAGTATTTCTTTAAGATCTGCAAACTACAGGTT 322
|||||
QY 241 GAAGATTTGTAAATTTACTCTCAACAGTTTACAGTTCTTCATTTCAC 290
|||||
Db 323 GAAGATCTGGAATCTTACTCTCTACAGCATTTATGATGCTCTCTCCAC 372
|||||

RESULT 11

BE287315 599 bp mRNA linear EST 26-OCT-2000
LOCUS 601093986F1 NCI_CGAP_Mam5 Mus musculus cdna clone IMAGE:3488780 5',
DEFINITION mRNA sequence.

ACCESSION BE287315

VERSION BE287315.1 GI:9166132

KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 599)

NIH-MGC <http://mgs.nci.nih.gov/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

CONTACT: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

<http://image.llnl.gov>

FEATURES

source

Plate: LIAM8528 row: k column: 21

High quality sequence stop: 542.

Location/Qualifiers

1..599
/organism="Mus musculus"
/mol_type="mRNA"
/strain="mix FVB/N, C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:3488780"
/tissue_type="tumor, gross tissue"
/dev_stage="7 months"
/lab_host="DH10B"
/clone_lib="NCI_CGAP Mam5"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site 1: SalI;
Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigators
providing samples: Lothar Hennighausen/Robin Humphreys,
NIH"

ORIGIN

Query Match 68.6%; Score 220.2; DB 2; Length 599;
Best Local Similarity 80.4%; Pred. No. 9.4e-57;
Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCGATCTCTGGGAGAAAGTGTCAAC 60
|||||
Db 67 GACATTCAGATGACTCAGTCTCCAGCTCTCTATCTCTCTGTTGGGAGAAACTGTCAAC 126
|||||
QY 61 ATCACATGCTGCGAGTCAGACCATGTATGATGATGTTAGCATGTTATGACGAGAAACCA 120
|||||
Db 127 ATCACATGTCGACCAAGTGAAATATTTACAGTAATTTAGCATGTTATGACGAGAAACAG 186
|||||
QY 121 GCGAAATCTCTCAGCTCTCTGATTTATGCTGCCACCAACTTGGCAGATGGGTCCCATCA 180
|||||
Db 187 GCGAAATCTCTCAGCTCTCTGTTATGTTGCAACAACTTAGCAGATGTTGTTGCCATCA 246
|||||
QY 181 AGTTTCAGTGGCAGTGTATCGGCACAAAATTTCTTTCAAGATCAGCAGCCCTACAGGCT 240
|||||
Db 247 AGATTCAGTGGCAGTGTATCGGCACACAGTATTCCTCAGCATCAACAGCTGCACTCT 306
|||||
QY 241 GAAGATTTGTAAATTTACTCTCAACAGTTTACAGTTCTTCATTTCACAGTTGGGTCT 300
|||||
Db 307 GAAGATTTGGGAGTTTACTGTCAACATTTTGGGTACTCCGTTACATTCGAGGG 366
|||||
QY 301 GGGACCAAGCTGGAGCTGAA 321
|||||
Db 367 GGGACCAAGTGGGATAAAA 387
|||||

RESULT 12

CB984699

LOCUS

DEFINITION

AGENCOURT 13460627 NIH MGC.184 Homo sapiens cdna clone

IMAGE:30325948 5', mRNA sequence.

ACCESSION CB984699

VERSION CB984699.1 GI:30279223

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;

Hominidae; Homo.

1 (bases 1 to 683)

NIH-MGC <http://mgs.nci.nih.gov/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

CONTACT: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Dr. Michael Brownstein and Dr. Miklos Palkovits

cDNA Library Preparation: CLONTECH Laboratories, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: NDCM132 row: j column: 05
 High quality sequence stop: 547.
 Location/Qualifiers

FEATURES

source
 1. .683
 /organism="Homo sapiens"
 /mol_type="mrna"
 /db_xref="taxon:9606"
 /clone="IMAGE:30325948"
 /lab_host="NIH MGC 184"
 /clone_lib="NIH MGC 184"
 /note="Organ: Pooled-Glandular; Vector: pDNR-LIB; Site 1:
 SfiI (ggccatgccc); Site 2: SfiI (ggccgctcgccc);
 Library is oligo-dT primed and directionally cloned. cDNA
 was prepared from a glandular pool of tissues from thyroid,
 parathyroid, adrenal, cortex and pineal gland. 5' and 3'
 adaptors were used in cloning as follows: 5' adaptor
 sequence: 5'-CACGCCATTATGGC-3' and 3' adaptor sequence:
 5'-ATTCTAGAGCGCGGCGCGCATG-dt(30)BN-3' (where B = A,
 C, or G and N = A, C, G, or T). Average insert size 1.38
 kb (range 0.60-3.5 kb). 15/15 colonies contained inserts
 by PCR. This library was enriched for full-length clones
 and was constructed by Clontech Laboratories (Palo Alto,
 CA). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 68.6%; Score 220.2; DB 6; Length 683;
 Best Local Similarity 80.4%; Pred. No. 9.8e-57;
 Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;
 QY 1 GACATTCAGATGACCCAGTCTCCTGCTCCAGTCTGCACTCTGGGAGAAAGTGTCAAC 60
 DB 90 GACATCCAGTTGACCCAGTCTCCATCTCTGCTGTCATCTATAGGACAGAGTCAAC 149
 QY 61 ATCATATGCTGGCAAGTCAGACCAATTGATATGATGTTAGCATGTTATCAGCAGAAACA 120
 DB 150 ATCACTTGGCGGCCAGTCAGGCAATAGCAGTTATTTAGCTGTTATCAGCAAAATCA 209
 QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACCAATTTGTCAGATGGGTGCCATCA 180
 DB 210 GGGAAAGCCCTTAACTCTGATCTATGTCATCCATCTTCAAGTGGGTGCCATCA 269
 QY 181 AGGTTTCAGTGGCAGTGGATCTGGCAAAAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
 DB 270 AGGTTTCAGTGGCAGTGGATCTGGCAGAGTTCACTTCACACTCAGCAGCCTCAGGCT 329
 QY 241 GAAGATTTTGTAAATATTACTGTGCAACAAAGTTTACAGTTCTCCATTTACAGTTGGTGTCT 300
 DB 330 GAAGATTTTGTAAATATTACTGTGCAACAACTTTACAGTTACCTTTACCTTTTCGGCGGA 389
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 390 GGGACCAAGCTGGAGATCAAA 410

RESULT 13
 BE307937
 LOCUS
 DEFINITION BE307937 691 bp mRNA linear EST 26-OCT-2000
 mRNA sequence.
 BE307937
 BE307937.1 GI:9163812
 ACCESSION
 VERSION
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridea; Muridae; Murinae; Mus.
 1 (bases 1 to 691)
 REFERENCE NIH-MGC http://mgc.nci.nih.gov/
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
 TITLE Unpublished (1999)
 JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-r@mail.nih.gov
 Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LLN8533 row: i column: 16
 High quality sequence stop: 568.
 Location/Qualifiers

FEATURES

source
 1. .691
 /organism="Mus musculus"
 /mol_type="mrna"
 /strain="mix FVB/N, C57BL/6J"
 /db_xref="taxon:10090"
 /clone="IMAGE:3490647"
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 /clone_lib="NCI CGAP Man5"
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 Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT.
 Library constructed by Life Technologies. Investigators
 providing samples: Lothar Hennighausen/Robin Humphreys,
 NIH"

ORIGIN

Query Match 68.6%; Score 220.2; DB 2; Length 691;
 Best Local Similarity 80.4%; Pred. No. 9.8e-57;
 Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;
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 QY 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCAACTTTGGCAGATGGGTGCCATCA 180
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 DB 312 GAAGATTTTGGAGTATTATTGTCAACATTTTGGGGTACTCCGTACACGTTGGAGGG 371
 QY 301 GGGACCAAGCTGGAGCTGAAA 321
 DB 372 GGGACCAAGCTGGGAATAAAA 392

RESULT 14
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 LOCUS
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 IMAGE:7375130 5', mRNA sequence.
 CO575799
 CO575799.1 GI:50388428
 ACCESSION
 VERSION
 KEYWORDS EST.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM
 Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia;
 Sciurognathi; Muridea; Muridae; Murinae; Rattus.
 1 (bases 1 to 829)
 REFERENCE NIH-MGC http://mgc.nci.nih.gov/
 AUTHORS

TITLE
JOURNAL
COMMENT

National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Drs. Josef Lazar & Howard Jacob, Medical
College of Wisconsin
cDNA Library Preparation: Open Biosystems
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM1525 row: b column: 24
High quality sequence stop: 632.
Location/Qualifiers
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/clone="IMAGE:7375130"
/lab_host="DH10B TONa"
/clone_lib="NIH_MGC_249"
/note="Organ: spleen; Vector: pExpress-1; Site 1: EcoRV;
Site 2: NotI; RNA obtained from testis tissue of 8 wk old
animal. Tissues were snap-frozen and kept at -80C before
RNA extraction and purification (Tri-reagent method). cDNA
was primed using oligo-dT primer:
5'-pGCTAGTCTAGATCGAGCGCGCCCT(7)25-3' and cloned into
the EcoRV/NotI sites of pExpress-1. Size-selection >1.25kb
resulted in an average insert size of 1.4 kb. This primary
library is normalized (primary library is NIH MGC 248)
and was constructed by Express Genomics (Frederick, MD).
Note: this is a NIH_MGC library"

FEATURES
source

Query Match 68.6%; Score 220.2; DB 7; Length 829;
Best Local Similarity 80.4%; Pred. No. 1e-56;
Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

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QY 241 GAAGATTTTGTAAATTTATTTACTGTCAACAGTTTACAGTTCTCCATTACGTTCCGTGCT 300
DB 311 GAAGATGAAGCAGATTTATTTCTGTCAACAGAGTTACAGTATCCGTACACGTTTGAGCT 370

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 371 GGGACCAAGCTGGAAGTCAAA 391

RESULT 15
BG754732
LOCUS
DEFINITION
ACCESSION

BG754732 867 bp mRNA linear EST 15-MAY-2001
602714301F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4854409 5',
mRNA sequence.
BG754732

VERSION
KEYWORDS
SOURCE
ORGANISM

BG754732.1 GI:14065385
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Homnidae; Homo.
1 (bases 1 to 867)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLM1702 row: a column: 02
High quality sequence stop: 805.
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1. .867
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4854409"
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/note="Organ: B-cells; Vector: pOTB7; Site 1: XhoI;
Site 2: EcoRI; cDNA made by oligo-dT priming.
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for average insert size 1.8kb. Library constructed by Ling
Hong in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library."

FEATURES
source

Query Match 68.6%; Score 220.2; DB 2; Length 867;
Best Local Similarity 80.4%; Pred. No. 1.1e-56;
Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60
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QY 301 GGGACCAAGCTGGAGCTGAAA 321
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Search completed: April 18, 2006, 20:05:21
Job time : 3808 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 18, 2006, 18:26:07 ; Search time 167 Seconds
(without alignments)
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Title: US-10-764-140-1
Perfect score: 321
Sequence: 1 gacatcagatgaccagtc.....ggaccaagctggagctgaaa 321

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:*

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9: /cgn2_6/ptcdat1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	321	100.0	321	3	US-09-293-854-1
3	293.8	91.5	375	3	US-09-647-468-12
4	293.8	91.5	375	3	US-09-647-468-13
5	287	89.4	1228	2	US-08-401-908-35
6	287	89.4	1300	2	US-08-401-908-34
7	278.4	86.7	312	2	US-07-789-344A-7
8	277.4	86.4	295	2	US-08-401-908-4
9	239.4	74.6	366	3	US-09-140-084-22
10	239.4	74.6	366	3	US-09-140-084-23
11	239.4	74.6	366	3	US-09-724-297-21
12	239.4	74.6	366	3	US-09-724-297-22
13	239.4	74.6	366	3	US-09-724-108-21
14	239.4	74.6	366	3	US-09-724-108-22
15	239.4	74.6	366	3	US-09-009-388C-21
16	239.4	74.6	366	3	US-09-009-388C-22
17	239.4	73.6	724	3	US-09-237-061-1
18	236.2	73.6	366	3	US-09-140-084-24
19	236.2	73.6	366	3	US-09-724-297-23
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21	236.2	73.6	366	3	US-09-009-388C-23
22	231.4	72.1	324	3	US-09-914-695-1
23	231.4	72.1	384	2	US-08-379-057-11
24	229.8	71.6	324	2	US-08-378-939-31

Sequence 33, Appl
Sequence 3, Appl
Sequence 3, Appl
Sequence 3, Appl
Sequence 8, Appl
Patent No. 5219396
Sequence 62, Appl
Sequence 1, Appl
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Sequence 5, Appl
Sequence 11, Appl
Sequence 2, Appl
Sequence 1, Appl
Sequence 8, Appl
Sequence 13, Appl
Sequence 3, Appl
Sequence 3, Appl
Sequence 1, Appl
Sequence 6, Appl
Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-814-806-1
; Sequence 1, Application US/08814806
; Patent No. 5986065
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
; APPLICANT: Jiao, Jin-an
; APPLICANT: Esperanza, Nieves
; APPLICANT: Lawrence, Luepschen
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; TITLE OF INVENTION: COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dike, Bronstein, Roberts & Cushman, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/814,806
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Corleiss, Peter F
; REGISTRATION NUMBER: 33,860
; REFERENCE/DOCKET NUMBER: 46943
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 321 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO

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; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-08-814-806-1

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Best Local Similarity 100.0%; Pred. No. 1.2e-96;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-09-293-854-1
; Sequence 1, Application US/09293854
; Patent No. 6555319
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
; Invention: Jiao, Jin-an
; Lawrence, Luepschen
; Esperanza, Nieves
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dike, Bronstein, Roberts & Cushman, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA: US/09/293,854
; APPLICATION NUMBER: US/09/293,854
; FILING DATE: 16-Apr-1999
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/814,806
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Corless, Peter F
; REGISTRATION NUMBER: 33,860
; REFERENCE/DOCKET NUMBER: 46943
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX: <Unknown>
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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 321 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-293-854-1

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Best Local Similarity 100.0%; Pred. No. 1.2e-96;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 ATCACATGCTGCGAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
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QY 301 GGGACCAAGCTGGAGCTGAAA 321
Db 301 GGGACCAAGCTGGAGCTGAAA 321

RESULT 3
US-09-647-468-12
; Sequence 12, Application US/09647468
; Patent No. 6677436
; GENERAL INFORMATION:
; APPLICANT: SATO, KOH
; APPLICANT: ADACHI, HIDEKI
; APPLICANT: YABUTA, NAOHIRO
; TITLE OF INVENTION: HUMANIZED ANTIBODY AGAINST HUMAN TISSUE FACTOR (TF) AND
; PROCESS OF PRODUCTION OF THE HUMANIZED ANTIBODY
; FILE REFERENCE: 053466/0289
; CURRENT APPLICATION NUMBER: US/09/647,468
; CURRENT FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: PCT/JP99/01768
; PRIOR FILING DATE: 1999-04-02
; PRIOR APPLICATION NUMBER: JP 10-91850
; PRIOR FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 183
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 375
; TYPE: DNA
; ORGANISM: Mus sp.
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
; OTHER INFORMATION: sequence coding for L chain V region of anti-Tf
; OTHER INFORMATION: mouse monoclonal antibody ATR-2
; NAME/KEY: big_peptide
; LOCATION: (1)..(54)
; NAME/KEY: mat_peptide
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QY 61 ATCATATGCTGGCAAGTCAGACCATGTATACATGTTAGCATGTGTATCAGCAGAAACCA 120
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Db 577 ATCATATGCTGGCAAGTCAGACCATGTGTATACATGTTAGCATGTGTATCAGCAGAAACCA 636
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Db 637 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACCAACTTGGCAGATGGGGTCCCATCA 696
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Db 697 AGGTTTCAGTGGTGTGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 756
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QY 241 GAAGATTTTGTAAATTTATTTACTGTCTCAACAAAGTTTACAGTTTCTCCATTCAGTTCCGGTGT 300
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QY 301 GGGACCAAGCTGGAGCTGA 319
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Db 817 GGCACCAAGCTGGAGTGA 835
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RESULT 6

US-08-401-908-34
; Sequence 34, Application US/08401908
; Patent No. 5684146
; GENERAL INFORMATION:
; APPLICANT: Yoshinobu OKUNO et al.
; TITLE OF INVENTION: A DNA WHICH CODES FOR THE VARIABLE REGION OF
; TITLE OF INVENTION: ANTIBODY
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack
; STREET: 805 Fifteenth Street, N.W., #700
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/401,908
; FILING DATE: March 10, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warren M. Cheek, Jr.
; REGISTRATION NUMBER: 33,367
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-8850
; TELEFAX:
; TELEX:
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1300
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-401-908-34

Query Match 89.4%; Score 287; DB 2; Length 1300;
Best Local Similarity 93.7%; Pred. No. 4.5e-85;
Matches 299; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

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Db 649 ATCATATGCTGGCAAGTCAGACCATGTGTATACATGTTAGCATGTGTATCAGCAGAAACCA 708
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QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACCAACTTGGCAGATGGGGTCCCATCA 180
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Db 769 AGGTTTCAGTGGTGTGATCTGGCACAATAATTTCTTCAAGATCAGCAGCCTACAGGCT 828
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QY 241 GAAGATTTTGTAAATTTATTTACTGTCTCAACAAAGTTTACAGTTTCTCCATTCAGTTCCGGTGT 300
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Db 829 GAAGATTTTGTAAATTTATTTACTGTCTCAACAACTTTACAGTACTCCGTGGACGTTCCGGTGA 888
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QY 301 GGGACCAAGCTGGAGCTGA 319
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Db 889 GGCACCAAGCTGGAGTGA 907
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RESULT 7

US-07-789-344A-7
; Sequence 7, Application US/07789344A
; Patent No. 5318897
; GENERAL INFORMATION:
; APPLICANT: Sudhir, Paul
; TITLE OF INVENTION: MONOCLONAL ANTIBODY AND ANTIBODY
; TITLE OF INVENTION: COMPONENTS ELICITED TO A POLYPEPTIDE ANTIGEN
; TITLE OF INVENTION: GROUND STATE
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Curtis, Morris & Safford
; ADDRESSEE: c/o Barry Evans
; STREET: 530 Fifth Avenue
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/789,344A
; FILING DATE: 08-NOV-1991
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Evans, Barry
; REGISTRATION NUMBER: 22,802
; REFERENCE/DOCKET NUMBER: 370068-3500
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 840-3333
; TELEFAX: (212) 840-0712
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 312 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-07-789-344A-7

Query Match 86.7%; Score 278.4; DB 2; Length 312;
Best Local Similarity 93.3%; Pred. No. 1.7e-82;
Matches 291; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGCTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCCACC 60
| | | | |

Db 1 GACATTGTGTCAGCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60
QY 61 ATCATATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120
Db 61 ATCATATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120
QY 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
Db 121 GGGAAATCTCTCAGCTCCTGATATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
QY 181 AGGTTCAAGTGGCAGTGGATCTGGCACAAAATTTTCTTTCAAGATCAGCAGCCTACAGGCT 240
Db 181 AGGTTCAAGTGGCAGTGGATCTGGCACAAAATTTTCTTTCAAGATCAGCAGCCTACAGGCT 240
QY 241 GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTCTCCATTCACGTTCCGGTGT 300
Db 241 GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTCTCCATTCACGTTCCGGTGT 300
QY 301 GGGACCAAGCTG 312
Db 301 GGGACCAAGCTG 312

RESULT 8

US-08-401-908-4
; Sequence 4, Application US/08401908
; Patent No. 5684146
; GENERAL INFORMATION:
; APPLICANT: Yoshinobu OKUNO et al.
; TITLE OF INVENTION: A DNA WHICH CODES FOR THE VARIABLE REGION OF
; TITLE OF INVENTION: ANTIBODY
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack
; STREET: 805 Fifteenth Street, N.W., #700
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.44 mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/401,908
; FILING DATE: March 10, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warren M. Cheek, Jr.
; REGISTRATION NUMBER: 33,367
; REFERENCE/DOCKET NUMBER:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-8850
; TELEFAX:
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 295
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: mRNA to cDNA
US-08-401-908-4

Query Match 86.4%; Score 277.4; DB 2; Length 295;
Best Local Similarity 96.3%; Pred. No. 3.6e-82;
Matches 284; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 1 GACATTGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60

Db 1 GACATTGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60
QY 61 ATCATATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120
Db 61 ATCATATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120
QY 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
Db 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
QY 181 AGGTTCAAGTGGCAGTGGATCTGGCACAAAATTTTCTTTCAAGATCAGCAGCCTACAGGCT 240
Db 181 AGGTTCAAGTGGTATGATCTGGCACAATAATTTTCTTTCAAGATCAGCAGCCTACAGGCT 240
QY 241 GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTCTCCATTCACGTTCCGGTGT 295
Db 241 GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTCTCCGTTGGAAGTTGG 295

RESULT 9

US-09-140-084-22
; Sequence 22, Application US/09140084A
; Patent No. 6300065
; GENERAL INFORMATION:
; APPLICANT: Kieke, et al.
; TITLE OF INVENTION: Yeast Cell Surface Display of Proteins and Uses Thereof
; FILE REFERENCE: D6061CIP2
; CURRENT APPLICATION NUMBER: US/09/140,084A
; CURRENT FILING DATE: 1998-08-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 22
; LENGTH: 366
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR products of
; OTHER INFORMATION: wild type scFv-KJ16
US-09-140-084-22

Query Match 74.6%; Score 239.4; DB 3; Length 366;
Best Local Similarity 84.1%; Pred. No. 1.7e-69;
Matches 270; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GACATTTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAACC 60
Db 1 GAGTCTCTGTTGACCCAAACTCTGCTCCCTGCTCTGCACTCCGGATGATCTGTCAACC 60
QY 61 ATCATATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120
Db 61 ATCATATGCTGGCAAGTCAGACCATTTGATATACATGTTAGCATGTTATCAGCAGAAACCA 120
QY 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
Db 121 GGGAAATCTCTCAGCTCCTGATTTATGCTGCCAACCACTTGGCAGATGGGTCCCATCA 180
QY 181 AGGTTCAAGTGGCAGTGGATCTGGCACAATAATTTTCTTTCAAGATCAGCAGCCTACAGGCT 240
Db 181 AGGTTCAAGTGGCAGTGGATCTGGCACAAGATTTCTTTAGATCAACAGCTACAGGTT 240
QY 241 GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTCTCCATTCACGTTCCGGTGT 300
Db 241 GAAGATATTTGGAACCTATTACTGTCTACAGGTTTCTAGTTCTCCGTTACACGTTGGAGCT 300
QY 301 GGGACCAAGCTGGAGCTGAAA 321
Db 301 GGCACCAAGCTGGAGCTCAAA 321

RESULT 10

US-09-140-084-23
; Sequence 23, Application US/09140084A

; Patent No. 6300065
; GENERAL INFORMATION:
; APPLICANT: Kieke, et al.
; TITLE OF INVENTION: Yeast Cell Surface Display of Proteins and Uses Thereof
; FILE REFERENCE: D6061CIP2
; CURRENT APPLICATION NUMBER: US/09/140,084A
; CURRENT FILING DATE: 1998-08-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 23
; LENGTH: 366
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR products of
; OTHER INFORMATION: KJ16-mut4
US-09-140-084-23

Query Match 74.6%; Score 239.4; DB 3; Length 366;
Best Local Similarity 84.1%; Pred. No. 1.7e-69;
Matches 270; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GACGTCTCTGGTGACCCAAACTCTGCTCCCTGCTGCACTCTCCGGATGAATCTGTCAAC 60

QY 61 ATCATATGCTGGCAAGTCAGACCATGATATGATGTTAGCATGTTATGATGAGCAAGCA 120
DB 61 ATCATATGCTGGCAAGTCAGACCATGATGTTAGCATGTTATGATGAGCAAGCA 120

QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGGTCCCATCA 180
DB 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGGTCCCATCA 180

QY 181 AGGTTCAAGTGGCAGTGGATCTGGCAAAAATTTCTTCAAGATCAGCAGCTACAGGCT 240
DB 181 AGGTTCAAGTGGCAGTGGATCTGGCAAAAATTTCTTCAAGATCAGCAGCTACAGGCT 240

QY 241 GAAGATTTGTAAATTTATGCTCAACAAGTTTACAGTTCTCCATTACAGTTTCGGTGT 300
DB 241 GAAGATTTGTAAATTTATGCTCAACAAGTTTACAGTTCTCCATTACAGTTTCGGTGT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGCACCAAGCTGGAGCTCAA 321

RESULT 11
US-09-724-297-21
; Sequence 21, Application US/09724297
; Patent No. 6423538
; GENERAL INFORMATION:
; APPLICANT: The Board of Trustees of the University of Illinois
; APPLICANT: Wittrup, et al.
; TITLE OF INVENTION: Yeast Cell Surface Display of Proteins and Uses Thereof
; FILE REFERENCE: 97-99C
; CURRENT APPLICATION NUMBER: US/09/724,297
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 09/009,388
; PRIOR FILING DATE: 1998-01-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 21
; LENGTH: 366
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1..7)
; OTHER INFORMATION: PCR products of wild type scFv-KJ16
US-09-724-297-21

Query Match 74.6%; Score 239.4; DB 3; Length 366;

Best Local Similarity 84.1%; Pred. No. 1.7e-69;
Matches 270; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GACGTCTCTGGTGACCCAAACTCTGCTCCCTGCTGCACTCTCCGGATGAATCTGTCAAC 60

QY 61 ATCATATGCTGGCAAGTCAGACCATGATATGATGTTAGCATGTTATGATGAGCAAGCA 120
DB 61 ATCATATGCTGGCAAGTCAGACCATGATGTTAGCATGTTATGATGAGCAAGCA 120

QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGGTCCCATCA 180
DB 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGGTCCCATCA 180

QY 181 AGGTTCAAGTGGCAGTGGATCTGGCAAAAATTTCTTCAAGATCAGCAGCTACAGGCT 240
DB 181 AGGTTCAAGTGGCAGTGGATCTGGCAAAAATTTCTTCAAGATCAGCAGCTACAGGCT 240

QY 241 GAAGATTTGTAAATTTATGCTCAACAAGTTTACAGTTCTCCATTACAGTTTCGGTGT 300
DB 241 GAAGATTTGTAAATTTATGCTCAACAAGTTTACAGTTCTCCATTACAGTTTCGGTGT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGCACCAAGCTGGAGCTCAA 321

RESULT 12
US-09-724-297-22
; Sequence 22, Application US/09724297
; Patent No. 6423538
; GENERAL INFORMATION:
; APPLICANT: The Board of Trustees of the University of Illinois
; APPLICANT: Wittrup, et al.
; TITLE OF INVENTION: Yeast Cell Surface Display of Proteins and Uses Thereof
; FILE REFERENCE: 97-99C
; CURRENT APPLICATION NUMBER: US/09/724,297
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 09/009,388
; PRIOR FILING DATE: 1998-01-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 366
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1..7)
; OTHER INFORMATION: PCR products of KJ16-mut4
US-09-724-297-22

Query Match 74.6%; Score 239.4; DB 3; Length 366;
Best Local Similarity 84.1%; Pred. No. 1.7e-69;
Matches 270; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GACGTCTCTGGTGACCCAAACTCTGCTCCCTGCTGCACTCTCCGGATGAATCTGTCAAC 60

QY 61 ATCATATGCTGGCAAGTCAGACCATGATATGATGTTAGCATGTTATGATGAGCAAGCA 120
DB 61 ATCATATGCTGGCAAGTCAGACCATGATGTTAGCATGTTATGATGAGCAAGCA 120

QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGGTCCCATCA 180
DB 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACAACTTGGCAGATGGGGTCCCATCA 180

QY 181 AGGTTCAAGTGGCAGTGGATCTGGCAAAAATTTCTTCAAGATCAGCAGCTACAGGCT 240
DB 181 AGGTTCAAGTGGCAGTGGATCTGGCAAAAATTTCTTCAAGATCAGCAGCTACAGGCT 240

Search completed: April 18, 2006, 18:36:07
Job time : 169 secs


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;
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-293-854-1

Query Match      100.0%; Score 321; DB 3; Length 321;
Best Local Similarity 100.0%; Pred. No. 7e-94;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCA 60
DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCA 60

QY 61 ATCACATGCTGGCAAGTCAGACCATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA 120
DB 61 ATCACATGCTGGCAAGTCAGACCATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCCTCAGCTCTGATTTATGCTGACCACTTGGCAGATGGGGTCCCATCA 180
DB 121 GGGAAATCTCCTCAGCTCTGATTTATGCTGACCACTTGGCAGATGGGGTCCCATCA 180

QY 181 AGGTTCAAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
DB 181 AGGTTCAAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240

QY 241 GAAGATTTTGTAAATTTATTTACTGTCACCAAGTTTACAGTTCTCCATTACAGTTCGGTGTCT 300
DB 241 GAAGATTTTGTAAATTTATTTACTGTCACCAAGTTTACAGTTCTCCATTACAGTTCGGTGTCT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGCTGGAGCTGAAA 321
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RESULT 2
US-09-990-586-1
; Sequence 1, Application US/09950586
; Publication No. US20030109680A1
; GENERAL INFORMATION:
; APPLICANT: JIAO, JIN-AN
; APPLICANT: WONG, HING C.
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS
; FILE REFERENCE: 71758/46943-CIP2
; CURRENT APPLICATION NUMBER: US/09/990,586
; PRIOR FILING DATE: 2001-11-21
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(321)
US-09-990-586-1
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Query Match      100.0%; Score 321; DB 3; Length 321;
Best Local Similarity 100.0%; Pred. No. 7e-94;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCA 60
DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCA 60

QY 61 ATCACATGCTGGCAAGTCAGACCATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA 120
DB 61 ATCACATGCTGGCAAGTCAGACCATTTGATATGATGTTAGCATGGTATCAGCAGAAACCA 120
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QY 121 GGGAAATCTCCTCAGCTCTGATTTATGCTGACCACTTGGCAGATGGGGTCCCATCA 180
DB 121 GGGAAATCTCCTCAGCTCTGATTTATGCTGACCACTTGGCAGATGGGGTCCCATCA 180

QY 181 AGGTTCAAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
DB 181 AGGTTCAAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240

QY 241 GAAGATTTTGTAAATTTATTTACTGTCACCAAGTTTACAGTTCTCCATTACAGTTCGGTGTCT 300
DB 241 GAAGATTTTGTAAATTTATTTACTGTCACCAAGTTTACAGTTCTCCATTACAGTTCGGTGTCT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGCTGGAGCTGAAA 321

RESULT 3
US-10-293-417-1
; Sequence 1, Application US/10293417
; Publication No. US20030082636A1
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
; APPLICANT: Jiao, Jin-an
; APPLICANT: Lawrence, Luepachen
; APPLICANT: Esperanza, Nieves
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESS: DIKE, Bronstein, Roberts & Cushman, LLP
; STREET: 130 Water Street
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/293,417
; FILING DATE: 12-NO. US20030082636A1-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/293,854
; FILING DATE: 16-Apr-1999
; APPLICATION NUMBER: 08/814,806
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Corless, Peter F
; REGISTRATION NUMBER: 33,860
; REFERENCE/DOCKET NUMBER: 46943
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-523-3400
; TELEFAX: 617-523-6440
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 321 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: <Unknown>
; ORIGINAL SOURCE:
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-293-417-1
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Query Match 100.0%; Score 321; DB 5; Length 321;

RESULT 6
US-10-764-140-1
; Sequence 1, Application US/10764140
; Publication No. US20040229282A1
; GENERAL INFORMATION:
; APPLICANT: WONG, HING C.
; APPLICANT: JIAO, JIN-AN
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; FILE REFERENCE: 59918 (71758)
; CURRENT APPLICATION NUMBER: US/10/764,140
; CURRENT FILING DATE: 2004-01-22
; PRIOR APPLICATION NUMBER: 10/293,417
; PRIOR FILING DATE: 2002-11-12
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: 08/814,806
; PRIOR FILING DATE: 2002-03-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-764-140-1

Query Match 100.0%; Score 321; DB 8; Length 321;
Best Local Similarity 100.0%; Pred. No. 7e-94;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60

QY 61 ATCAGATGCTGGCAAGTGCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
DB 61 ATCAGATGCTGGCAAGTGCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCAATTTCTTCAAGATCAGAGCTTACAGGCT 240
DB 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCAATTTCTTCAAGATCAGAGCTTACAGGCT 240

QY 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGAGCTTACAGGCT 300
DB 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGAGCTTACAGGCT 300

QY 241 GAAGATTTTGTAAATTTATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGTTCCGGTGT 300
DB 241 GAAGATTTTGTAAATTTATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGTTCCGGTGT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGCTGGAGCTGAAA 321

RESULT 7
US-10-618-338-1
; Sequence 1, Application US/10618338
; Publication No. US2005008929A1
; GENERAL INFORMATION:
; APPLICANT: Wong, Hing C.
; APPLICANT: Jiao, Jin-an
; Eperanza, Nieves
; Lawrence, Luepschen
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD
; COAGULATION AND METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dike, Bronstein, Roberts & Cushman, LLP
; STREET: 130 Water Street
; CITY: Boston

STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/618,338
FILING DATE: 11-Jul-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/293,854
FILING DATE: 16-Apr-1999
APPLICATION NUMBER: 08/814,806
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Corless, Peter F
REGISTRATION NUMBER: 33,860
REFERENCE/DOCKET NUMBER: 46943
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 321 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: <Unknown>
ORIGINAL SOURCE:
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-618-338-1

Query Match 100.0%; Score 321; DB 9; Length 321;
Best Local Similarity 100.0%; Pred. No. 7e-94;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60

QY 61 ATCAGATGCTGGCAAGTGCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
DB 61 ATCAGATGCTGGCAAGTGCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCAATTTCTTCAAGATCAGAGCTTACAGGCT 240
DB 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCAATTTCTTCAAGATCAGAGCTTACAGGCT 240

QY 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGAGCTTACAGGCT 300
DB 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTCAAGATCAGAGCTTACAGGCT 300

QY 241 GAAGATTTTGTAAATTTATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGTTCCGGTGT 300
DB 241 GAAGATTTTGTAAATTTATTTACTGTCAACAAAGTTTACAGTTCTCCATTTCAGTTCCGGTGT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGCTGGAGCTGAAA 321

RESULT 8
US-10-462-062-12
; Sequence 12, Application US/10462062
; Publication No. US20040044187A1
; GENERAL INFORMATION:

; OTHER INFORMATION: construct of DNA encoding bispecific single chain
; OTHER INFORMATION: antibody comprising anti-zeta-chain/anti-EpCAM
; OTHER INFORMATION: domains.
US-11-036-098-17

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Query Match          73.6%; Score 236.2; DB 10; Length 1637;
Best Local Similarity 83.5%; Pred. No. 5.9e-66;
Matches 268; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GACATTGAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTACCC 60
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 67 GATATCCAGATGACACAGTCTCTGCTCCCTGCTGCTGCCGCCGAGAGAAATTGTACG 126
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 61 ATCAGATGCTTGGCAAGTCAGACCATTTGATACATGTTAGCATGTTATCAGCAGAAACCA 120
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 127 ATCAGATGCTTGGCAAGTCAGACCATTTGATACATGTTAGCATGTTATCAGCAGAAACCA 186
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 121 GGGAAATCTCTCAGTCTCTGATTTATGCTGCCACCAACTTGGCAGATGGGGTCCCATCA 180
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 187 GGGAAATCTCTCAGTCTCTGATCTATAGTGCACCCAGCTTGGCAGCGGATCCCATCA 246
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 181 AGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGCT 240
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 247 AGTTTCAGCGGAGTAGATCTGGTACACAGTATTTCTTTAAGATCAGCAGACTACAGTT 306
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 241 GAAGATTTTGTAAATTTATTACTGTCAACAAGTTTACAGTTTCTCCATTTCAGTTTGGTCT 300
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 307 GAAGATCTGGAAATCTATTACTGTCTACAGCGTTATAGTAATCCCAACAGTTTGGAGCT 366
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 301 GGGACCAAGCTGGAGCTGAAA 321
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 367 GGGACCAAGCTGGAGCTGAAA 387
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
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Search completed: April 18, 2006, 22:26:16
Job time : 575 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 18, 2006, 18:31:21 ; Search time 1340 Seconds
(without alignments)
964.876 Million cell updates/sec

Title: US-10-764-140-1
Perfect score: 321
Sequence: 1 gacattcagatgaccagtc.....ggaccaagctggagctgaaa 321

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9281099 seqs, 2013915447 residues

Total number of hits satisfying chosen parameters: 18562198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.New.*

- 1: /SIDSS/ptodata/2/pubpna/US08_NEW_PUB.seq.*
- 2: /SIDSS/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 3: /SIDSS/ptodata/2/pubpna/US07_NEW_PUB.seq.*
- 4: /SIDSS/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 5: /SIDSS/ptodata/2/pubpna/US03_NEW_PUB.seq.*
- 6: /SIDSS/ptodata/2/pubpna/US09_NEW_PUB.seq.*
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- 8: /SIDSS/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 9: /SIDSS/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 10: /SIDSS/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 11: /SIDSS/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 12: /SIDSS/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 13: /SIDSS/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 14: /SIDSS/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 15: /SIDSS/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	321	100.0	321	11	US-11-122-622-1
2	321	100.0	321	14	US-11-087-528-1
3	240.2	74.8	411	14	US-11-136-527-190
4	240.2	74.8	411	14	US-11-136-527-4286
5	226.6	70.6	714	14	US-11-128-900-62
6	226.6	70.6	13281	9	US-10-893-483-188
7	224.6	70.0	322	12	US-11-144-248-54
8	224.6	70.0	322	14	US-11-144-248-54
9	224.6	70.0	322	14	US-11-144-248-54
10	221.8	69.1	708	14	US-11-086-289-7
11	221.8	69.1	13281	9	US-10-893-483-188
12	220.2	68.6	324	11	US-11-193-739-173
13	220.2	68.6	324	11	US-11-049-536-173
14	218.6	68.1	322	7	US-10-956-008-75
15	218.6	68.1	324	11	US-11-193-739-241
16	218.6	68.1	324	14	US-11-049-536-241
17	218	67.9	326	12	US-11-144-248-53
18	218	67.9	326	14	US-11-144-248-53

19	218	67.9	326	14	US-11-182-343-53	Sequence 53, Appl
20	217	67.6	12233	9	US-10-893-483-187	Sequence 187, App
21	217	67.6	12233	9	US-10-893-483-187	Sequence 187, App
22	215.4	67.1	315	14	US-11-155-775-51	Sequence 51, Appl
23	215.4	67.1	321	14	US-11-084-554-5	Sequence 5, Appl
24	215.4	67.1	321	14	US-11-136-250-5	Sequence 5, Appl
25	215.4	67.1	324	11	US-11-193-739-453	Sequence 453, App
26	215.4	67.1	324	11	US-11-193-739-597	Sequence 597, App
27	215.4	67.1	324	14	US-11-049-536-453	Sequence 597, App
28	215.4	67.1	324	14	US-11-049-536-597	Sequence 597, App
29	215.4	67.1	357	9	US-10-993-543-121	Sequence 121, App
30	215.4	67.1	1721	9	US-10-988-207-27	Sequence 27, Appl
31	213.8	66.6	315	14	US-11-155-775-55	Sequence 55, Appl
32	213.8	66.6	321	12	US-11-051-453-37	Sequence 37, Appl
33	213.8	66.6	322	12	US-11-144-248-13	Sequence 13, Appl
34	213.8	66.6	322	14	US-11-144-248-13	Sequence 13, Appl
35	213.8	66.6	322	14	US-11-182-343-13	Sequence 13, Appl
36	213.8	66.6	324	11	US-11-193-739-481	Sequence 481, App
37	213.8	66.6	324	14	US-11-049-536-481	Sequence 481, App
38	213.8	66.6	388	14	US-11-009-840A-206	Sequence 206, App
39	213.8	66.6	388	14	US-11-009-873A-206	Sequence 206, App
40	213.8	66.6	388	14	US-11-009-769A-206	Sequence 206, App
41	213.8	66.6	708	14	US-11-086-289-3	Sequence 3, Appl
42	213.8	66.6	708	14	US-11-086-289-19	Sequence 19, Appl
43	212.2	66.1	308	11	US-11-193-739-21	Sequence 21, Appl
44	212.2	66.1	308	14	US-11-049-536-21	Sequence 21, Appl
45	212.2	66.1	321	8	US-10-850-635-17	Sequence 17, Appl

ALIGNMENTS

RESULT 1

US-11-122-622-1
; Sequence 1, Application US/11122622
; Publication No. US20060039901A1
; GENERAL INFORMATION:
; APPLICANT: JIAO, JIN-AN
; TITLE OF INVENTION: ANTIBODIES FOR INHIBITING BLOOD COAGULATION AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; FILE REFERENCE: 71758/46943-CIP2
; CURRENT APPLICATION NUMBER: US/11/122,622
; CURRENT FILING DATE: 2005-05-05
; PRIOR APPLICATION NUMBER: US/09/990,586
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 09/293,854
; PRIOR FILING DATE: 1999-04-16
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 321
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(321)
US-11-122-622-1

Query Match 100.0%; Score 321; DB 11; Length 321;
Best Local Similarity 100.0%; Pred. No. 2.4e-92;
Matches 321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GACATTCAGATGACCCAGTCTCTCCCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
Db	1	GACATTCAGATGACCCAGTCTCTCCCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
QY	61	ATCACATGCTGGCAAGTCAGACCATTCATGATCATGTTAGCATGTTATCAGCAGAAACCA 120
Db	61	ATCACATGCTGGCAAGTCAGACCATTCATGATCATGTTAGCATGTTATCAGCAGAAACCA 120
QY	121	GGGAATCTCTCAGCTCTGATTTATGCTGCCACCACTTGGCAGATGGGGTCCCATCA 180

Best Local Similarity		82.2%;	Pred. No. 1.9e-66;	
Matches		264;	Conservative	18; Mismatches 36; Indels 3; Gaps 1;
Qy	1	GACATTCAGATGACCCAGTCTCCCTGCGCTCCAGAGTCGATCTCTGGGAGAAAGTGTCACC	60	
Db	85	GACATCAATGTGACACAGTCTCCCTGCGCTCCCTGCTGCGATCTCGSAGAAATTTTCACC	144	
Qy	61	ATCACATGCTCCGCGAAGTCAGACCAATTGATACATGGTTAGCATGGTATCAGCAGAAACCA	120	
Db	145	ATCACATGCCAGCGCAGCCAGGACATTTGGKARTTSGTTATYATGGTATCAGCAGAAACCA	204	
Qy	121	GGGAAATCTCTTCAGTCTCTGAGTCTTGATTTATGTCGCCACCACTTGGCAGATGGGGTCCCATCA	180	
Db	205	GGGAAATCTCTTCAGTCTCTGATCTATRTGTGCAACCAKCTTGGCAGATGGGTCCCATCA	264	
Qy	181	AGGTTTCAGTGGCATGGATCTGGGCACAAAATTTTCTTTCAAGATCAGCAGCCTACAGCT	240	
Db	265	AGGTTTCAGYGGCAGTAGATCTGGCACACAGTATTCTCTTAAGATCAGCAGACTACRGGT	324	
Qy	241	GAGATTTTGTAAATTTATTACTGTCAACAGTTTACAGTTCTCATTTCACTTCGGTGCT	300	
Db	325	GAGATATTGGAAYCTATTACTGTCTACAGKYTTMTAGTKCTC---TSAGGTTCCGGTKSW	381	
Qy	301	GGGACCAAGCTGGAGCTGAA	321	
Db	382	GGSAACCAAGCTGGARWTSAA	402	

RESULT 5
US-11-128-900-62
; Sequence 62, Application US/11128900
; Publication No. US20050287136A1
; GENERAL INFORMATION:
; APPLICANT: HANSON, DOUGLAS C.
; APPLICANT: NEVEU, MARK J.
; APPLICANT: MUELLER, EILEEN E.
; APPLICANT: HANKE, JEFFREY H.
; APPLICANT: GILMAN, STEVEN C.
; APPLICANT: DAVIS, C. GEOFFREY
; APPLICANT: CORVALAN, JOSE R.
; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4
; FILE REFERENCE: ABX-PFI DIV3
; CURRENT APPLICATION NUMBER: US/11/128.900
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/776649
; PRIOR FILING DATE: 2004-02-10
; PRIOR APPLICATION NUMBER: US 10/612497
; PRIOR APPLICATION NUMBER: 2003-07-01
; PRIOR APPLICATION NUMBER: US 09/472087
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: US 60/113647
; PRIOR FILING DATE: 1998-12-23
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 62
; LENGTH: 714
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-128-900-62

Query Match	70.6%	Score 226.6;	DB 14;	Length 714;
Best Local Similarity	81.6%	Pos. No. 5.5e-62;		
Matches 262;	Conservative 0;	Mismatches 59;	Indels 0;	Gaps 0;

Qy	1	GACATTCAGATGACCCAGTCTCTGCGCTCCAGCTCGCATCTCTGGGAGAAAGTGTCACC	60
Db	67	GACATCAGATGACCCAGTCTCCATCTCTCCCTGTCTGCATCTGTAGGAGACAGAGTCACC	126
Qy	61	ATCACATGCTCGGCAAGTCAGACCATTGATACATGTTAGCATGTTATCAGCAGAAACCA	120
Db	127	ATCACTGCGGGCAAGTCAGACGTTAAACGCTATTATTGGTATCAGCAGAAACCA	186
Qy	121	GGGAAATCTCCTCAGCTCCTGATTATTATGCTGCGCAACCACTGGCAGATGGGGTCCCATCA	180

Db	187	GGGAAGCCCTAAACTCTGATCTATGCTGCATCCAGTTTGCAAAGTGGGGTCCCATCA	246
Qy	181	AGGTTTCAGTGGCAGTGATCTGGCACAAAATTTCTTTCAAGATCAGCAGCTACAGCT	240
Db	247	AGGTTTCAGTGGCAGTGATCTGGGACAGATTTTCACTCTCACCATCAGCAGTCTGCAACCT	306
Qy	241	GAAGATTTTGTAAATTATTACTGTCAACAAGTTTACAGTTTCTCCATTTCACGTTTCGGTGCT	300
Db	307	GAAGATTTTGCACCTTACTACTGTCAACAGTATTACAGTACTCCATTCACTTTGGGCCCT	366
Qy	301	GGGACCAAGCTGGAGCTGAAA	321
Db	367	GGGACCAAGTGGAAATCAAA	387

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RESULT 6
US-10-893-483-188/c
; Sequence 188, Application US/10893483
; Publication No. US20060026696A1
; GENERAL INFORMATION:
; APPLICANT: Buelow, Roland
; APPLICANT: Platzner, Josef
; APPLICANT: Schooten, Wim van
; TITLE OF INVENTION: Humanized Immunoglobulin Loci
; FILE REFERENCE: 39691-0007A
; CURRENT APPLICATION NUMBER: US/10/893,483
; CURRENT FILING DATE: 2004-07-15
; PRIOR APPLICATION NUMBER: 60/487,733
; PRIOR FILING DATE: 2003-07-15
; NUMBER OF SEQ ID NOS: 460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 188
; LENGTH: 13281
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Humanized light chain locus
US-10-893-483-188

```

Query Match	70.6%	Score 226.6	DB 9	Length 13281
Best Local Similarity	81.6%	Pred. No. 2.1e-61		
Matches 262	Conservative 0	Mismatches 59	Indels 0	Gaps 0
Qy	1	GACATTCAGATGACCCAGTCTCTGGCTCCAGTCTGCATCTCTGGAGAAAGTGTCAAC	60	
Db	9439	GACATCAGATGACCCAGTCTCTTCACCTGTCTGCATCTGTAGGAGACAGAGTCAAC	9380	
Qy	61	ATCACATGCCCTGGCAAGTCAGACCAATTGATACATGGTTAGCATGGTATCAGCAGAAACCA	120	
Db	9379	ATCACTTCCGGGCCAGTCAGAGTATTAGTAGCTGGTGGCCTGGTATCAGCAGAAACCA	9320	
Qy	121	GGAAATCTCTCAGCTCTGATTTATGTGCGCACAACTTGGCAGATGGGGTCCCATCA	180	
Db	9319	GGAAAGCCCTTAAGCTCTCTGATCTATGATGTCCTCCAGTTTGGAAAGTGGGGTCCCATCA	9250	
Qy	181	AGGTTTCAGTGGCAGTCGATCTGCGACAAAATTTTCTTCAAGATCAGCAGCTTACAGGCT	240	
Db	9259	AGGTTTCAGCGGCAGTGGATCTGGGACAGAAATTCATCTCTCACCATCAGACGCTTGCAGCCT	9200	
Qy	241	GAAGATTTTGTAAATTATTACTCTCAACAGTTTACAGTTTCTCCATTCAGTTTCGGTGTCT	300	
Db	9199	GATGATTTTGCACCTTATTACTGCCAACAGTATAATAGTTATTCTCTCACTTTTCGGCGGT	9140	
Qy	301	GGGACCAAGCTGGAGCTGAAA	321	
Db	9139	GGGACCAAGTGGATCTCAA	9119	

RESULT 7
US-11-144-248-54
; Sequence 54, Application US/11144248
; Publication No. US20050244408A1

```

; GENERAL INFORMATION:
; APPLICANT: Cohen, Bruce D.
; APPLICANT: Beebe, Jean
; APPLICANT: Miller, Penelope E.
; APPLICANT: Moyer, James D.
; APPLICANT: Corvalan, Jose R.
; APPLICANT: Gallo, Michael
; TITLE OF INVENTION: ANTIBODIES TO INSULIN-LIKE GROWTH FACTOR I RECEPTOR
; FILE REFERENCE: ABX-PF2
; CURRENT APPLICATION NUMBER: US/11/144,248
; CURRENT FILING DATE: 2005-06-02
; PRIOR APPLICATION NUMBER: US/10/038,591
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: 60/259,927
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 322
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Consensus
; OTHER INFORMATION: sequence
US-11-144-248-54

Query Match          70.0%; Score 224.6; DB 12; Length 322;
Best Local Similarity 78.5%; Pred. NO. 1.7e-61;
Matches 252; Conservative 12; Mismatches 57; Indels 0; Gaps 0

Qy      "      1  GACATTTCAGATGACCCAGTCTCCCTGCCAGTCGTGATCTCTGGGAGAAAGTGTCCACC 60
Db      "      1  GACATCCAGATGACCCAGTCTCCATCTCCCTGTGTGATCTGTGAGAGAGACAGAGTCCACC 60

Qy      61  ATCATATGCTCGGCAAGTCAGACCATTCATACATGTTAGCATGGTATCAGCAGAGAAACA 120
Db      61  ATCACTTGGCGGCGNAGTCAGAGCATTAGYASCTWTTTAAATTTGGTATCAGCAGAGAAACA 120

Qy      121  GGGAAATCTCTCTCAGTCTCTGATTTATGCTGCCACCAACTTTGGCAGATGGGGTCCCATCA 180
Db      121  GGGAAAGCCCCTAARCTCTCTGATCVATGTCATCCAGTTTTCARGTGGGGTCCCATCA 180

Qy      181  AGGTTTCAGTGGCAGTGGATCTGGCAGAAATTTTCTTTCAAGTACAGCAGCTACAGGCT 240
Db      181  AGGTTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCAACATCAGCAGTCTGCAACCT 240

Qy      241  GAAGATTTTGTAAATTTACTGTCAACAAGTTTACAGTTTCTCCATTCACGTTCCGGTGTCT 300
Db      241  GAAGATTTTGCNACTTACTACTGTCAACAGATTTACATRCCCCCAAYCHCTTTCGGCGGA 300

Qy      301  GGGACCAAGCTGGAGCTGAAA 321
Db      301  GGGACCAAGCTGGAGATCAAA 321

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RESULT 8
US-11-144-222-54
; Sequence 54, Application US/11144222
; Publication No. US20050281812A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Bruce D.
; APPLICANT: Beebe, Jean
; APPLICANT: Miller, Penelope E.
; APPLICANT: Moyer, James D.
; APPLICANT: Corvahan, Jose R.
; APPLICANT: Gallo, Michael
; TITLE OF INVENTION: ANTIBODIES TO INSULIN-LIKE GROWTH FACTOR I RECEPTOR
; FILE REFERENCE: ABX-PF2
; CURRENT APPLICATION NUMBER: US/11/144,222
; PRIOR FILING DATE: 2005-06-02
; PRIOR APPLICATION NUMBER: US/10/038,591
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: 60/259,927

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; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 54
; LENGTH: 322
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Consensus
; OTHER INFORMATION: sequence
US-11-144-222-54

Query Match          70.0%; Score 224.6; DB 14; Length 322;
Best local Similarity 78.5%; Pred. No. 1.7e-61;
Matches 252; Conservative 12; Mismatches 57; Indels 0; Gaps 0

Qy      1  GACATTCCAGATGACCCAGTCTCTCGCTCCCGCTCCAGATCTGCATCTCTGGGAGAAAGTCTCACC 60
Db      1  GACATCCAGATGACCCAGTCTCCATCTCTCTGCTGTCATCTGTAGGACAGAGTCACC 60

Qy     61  ATCATATGCTCGGCAAGTCAGACCATTTGATACATGTTAGCATGGTATCAGCAGAAACCA 120
Db     61  ATCACTTGGCGGCAAGTCAGAGCATTAGVASCTTWTAAATTGGTATCAGCAGAAACCA 120

Qy    121  GGGAAATCTCTCAGCTCCTGATTATATGCTGCCACCAACTTGGCAGATGGGGTCCCATCA 180
Db    121  GGGAAAGCCCTTAARCTCCTGATCATATGTTGTCATCCAGTTTTCAAAGTGGGGTCCCATCA 180

Qy    181  AGGTTTCAGTGGCAGTGGATCTGGGCACAAAATTTTCTTTCAAGATCAGCAGCCTACAGGCT 240
Db    181  AGGTTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGTCTGCAACT 240

Qy    241  GAAGATTTTGTAATTAATTACTGTCAAAGTTTACAGTTTCTCCATTCAGTTCGGTGGT 300
Db    241  GAAGATTTTGCAACTTACTACTGTCAACAGAGTTACARTCCCAAYGCHCTTTCGGCGGA 300

Qy    301  GGGACCAAGCTGGAGCTGAAA 321
Db    301  GGGACCAAGGTGGAGATCAAA 321

RESULT 9
US-11-182-343-54
; Sequence 54, Application US/11182343
; Publication No. US20060018910A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Bruce
; APPLICANT: Gualberto, Antonio
; APPLICANT: Melvin, Carrie
; APPLICANT: Roberts, Luisa M.
; TITLE OF INVENTION: COMBINATION TREATMENT FOR BREAST CANCER
; FILE REFERENCE: FC32226A
; CURRENT APPLICATION NUMBER: US/11/182,343
; CURRENT FILING DATE: 2005-07-15
; PRIOR APPLICATION NUMBER: 60/588,721
; PRIOR FILING DATE: 2004-07-16
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 54
; LENGTH: 322
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Consensus Sequence
US-11-182-343-54

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Query Match      70.0%; Score 224.6; DB 14; Length 322;
Best Local Similarity 78.5%; Pred. No. 1.7e-61;
Matches 252; Conservative 12; Mismatches 57; Indels 0; Gaps 0

Qy 1 GACATTCAGATGACCCAGTCTCTCGCCCTCCAGTCTGCATCTCTGGGAGAAAGTGTCACC 60
Db 1 GACATTCAGATGACCCAGTCTCTCATCTCTCGCTGTCTGCATCTGTAGAGACAGAGTCACC 60

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Qy	61	ATCATGCTGGCAGTCCAGACCAATTGATCATGGTTAGCATGGTATCAGCAGAAACCA	120
Db	61	ATCATTGCGGGCAAGTCAGAGCATTTAGTASCTTTTAAATTTGGTATCAGCAGAAACCA	120
Qy	121	GGGAATCTCTCAGCTCTGATTTATGCTGCCACCACTTCGCAGATGGGTCCCATCA	180
Db	121	GGGAAGCCCTAARCTCTGATCATGTCATCCAGTTTTCARGTGGGTCCCATCA	180
Qy	181	AGTTTCAGTGGCAGTGGATCTGGCAAAATTTTCTTTCAGATCAGCAGCCTACAGGT	240
Db	181	AGTTTCAGTGGCAGTGGATCTGGCAGATTTCACTCTCCCATCAGCAGTCTGCAACCT	240
Qy	241	GAAGATTTTGAATATTACTGTCAACAAAGTTTACAGTCTTCCTCAATTCAGTTCGGTGCT	300
Db	241	GAAGATTTTGCACCTTACTGTCAACAGATTACATRCCTCCCAATTCCTTTGGCGGA	300
Qy	301	GGGACCAAGCTGGAGCTGAAA	321
Db	301	GGGACCAAGGTGGAGATCAAA	321

RESULT 10

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US-11-086-289-7
; Sequence 7, Application US/11086289
; Publication No. US20060002929A1
; GENERAL INFORMATION:
; APPLICANT: KHARE, SANJAY D.
; APPLICANT: KELLERMANN, STRID-AIMEE
; TITLE OF INVENTION: MONOCLONAL ANTIBODIES
; FILE REFERENCE: 06843.0094-00000
; CURRENT APPLICATION NUMBER: US/11/086,289
; CURRENT FILING DATE: 2005-03-23
; PRIOR APPLICATION NUMBER: 60/555,396
; PRIOR FILING DATE: 2004-03-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 7
; LENGTH: 708
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-086-289-7

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Query Match	69.1%	Score 221.8	DB 14	Length 708
Best Local Similarity	80.7%	Prod. No. 1.9e-60		
Matches 259	Conservative 0	Mismatches 62	Indels 0	Gaps 0
Qy	1	GACATTGAGATGACCCAGTCTCCCTCCAGTCTGCATCTCTGGGAGAAAGTGTCA	60	
Db	67	GACATCAGATGACCCAGTCTCCATCTCCCTGTCTGCATCTGTAGGACAGACAGATCA	126	
Qy	61	ATCACATGCTCCGGAAGTCAGACCATGATACATGTTAGCATGGTATCAGCAGAAACCA	120	
Db	127	ATCACTTCCGGGACATCAGAGCATTAGCAGCTATTAAATTTGGTATCAGCAGAAACCA	186	
Qy	121	GGGAAATCTCTCAGCTCTCTGATTTATGCTGCCACCACTTTGGCAGATGGGGTCCCATCA	180	
Db	187	GGGAAAGCCCCTAAGCTCTGATCTTTGCTGCATCCAGTTTGGCAAAGTGGGGTCCCATCA	246	
Qy	181	AGGTTTCAGTGGCAGTGCATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGGCT	240	
Db	247	AGGTTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGTCTGCAACCT	306	
Qy	241	GAAGATTTTGTAAATATTACTGTGTCAACAAGTTTACAGATTCTTCATTTACGGTTCGGTGCT	300	
Db	307	GAAGATTTTGCNACTTACTCTGTCAACAGAGTTACAGTACCCCATTCATCTTCGGCCCT	366	
Qy	301	GGGACCAAGCTGGAGCTGAA	321	
Db	367	GGGACCAAGTGGATATCAA	387	

RESULT 11

```

US-10-893-483-188
; Sequence 188, Application US/10893483
; Publication No. US20060026696A1
; GENERAL INFORMATION:
; APPLICANT: Buelow, Roland
; APPLICANT: Platzer, Josef
; APPLICANT: Schooten, Wim van
; TITLE OF INVENTION: Humanized Immunoglobulin Loci
; FILE REFERENCE: 39691-0007A
; CURRENT APPLICATION NUMBER: US/10/893,483
; CURRENT FILING DATE: 2004-07-15
; PRIOR APPLICATION NUMBER: 60/487,733
; PRIOR FILING DATE: 2003-07-15
; NUMBER OF SEQ ID NOS: 460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 188
; LENGTH: 13281
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Humanized light chain locus
US-10-893-483-188

Query Match          69.1%; Score 221.8; DB 9; Length 13281;
Best Local Similarity 80.7%; Pred. No. 7.3e-60;
Matches 259; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

Qy 1 GACATTCAGATGACCAGCTCTCCCTCCAGCTCTGCGAGTCTGCATCTCTCGGAGAAAGTGTCAAC 60
Db 12395 GACATTCAGATGACCAGCTCTCCCTCCAGCTCTGCGAGTCTGCATCTCTGAGGAGACAGAGTCAAC 12454

Qy 61 ATCATGCTCTGGCAAGTCAGACCATTCATACATGTTAGCATGTTATCAGCAGAAACCA 120
Db 12455 ATCACTTGGCGGCAAGTCAGACCATTCAGACATTTAAATTTGCTATCAGCAGAAACCA 12514

Qy 121 GGGAAATCTCTCAGCTCTCTGATTTATGCTGCCACCAACTTGGCGAGATGGGGTCCCATCA 180
Db 12515 GGGAAAGCCCCAAGCTCTGATCTATGCTGCAAGTCCAGTTTGCAGAGTGGGGTCCCATCA 12574

Qy 181 AGGTTTCAGTGCAGTGGATCTGGGCACAAATTTCTTTCAAGATCAGCAGCCTACAGGCT 240
Db 12575 AGGTTTCAGTGCAGTGGATCTGGGCACAGATTTCACTCTCACCATCAGCAGTCTGCAACCT 12634

Qy 241 GAAGATTTTGTAAATTTATTAAGTGTCAACAAAGTTTACAGTTTCCATTACAGTTTCGGTGTCT 300
Db 12635 GAAGATTTTGTAAATTTATTAAGTGTCAACAAAGTTTACAGTTTCCATTACAGTTTCCGGTGTCT 300

Qy 301 GGGACCAAGCTGGAGCTGAAA 321
Db 12695 GGGACCAAGCTGGAGATTAAA 12715

RESULT 12
US-11-199-739-173
; Sequence 173, Application US/11199739
; Publication No. US20060057138A1
; GENERAL INFORMATION:
; APPLICANT: Wood, Clive R.
; APPLICANT: Dransfield, Daniel T.
; APPLICANT: Pieters, Henk
; APPLICANT: Hoet, Rene
; APPLICANT: Hufton, Simon E.
; TITLE OF INVENTION: TIE COMPLEX BINDING PROTEINS
; FILE REFERENCE: 10280-135001
; CURRENT APPLICATION NUMBER: US/11/199,739
; CURRENT FILING DATE: 2005-08-09
; PRIOR APPLICATION NUMBER: US 11/049,536
; PRIOR FILING DATE: 2005-02-02
; PRIOR APPLICATION NUMBER: US 10/916,840
; PRIOR FILING DATE: 2004-08-12
; PRIOR APPLICATION NUMBER: US 60/494,713
; PRIOR FILING DATE: 2003-08-12
; NUMBER OF SEQ ID NOS: 726

```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 173
; LENGTH: 324
; TYPE: DNA
; ORGANISM: ARTIFICIAL
; FEATURE:
; OTHER INFORMATION: Antibody
US-11-199-739-173

Query Match      68.6%; Score 220.2; DB 11; Length 324;
Best Local Similarity 80.4%; Pred. No. 4.3e-60;
Matches 258; Conservative 0; Mismatches 63; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCAATCTCTGGGAGAAAGTGTCAAC 60
DB 4 GACATCCAGATGACCCAGTCTGATCTCTCCCTGCTGCAATCTCTGAGAGACAGAGTCAAC 63

QY 61 ATCACATGCTGGCAAGTCAGACCAATGTATACATGTTAGCATGTGTATCAGCAGAAACCA 120
DB 64 ATCACTTGGCGGCAAGTCAGAGCATTAGCAGCTATTTAAATTGGTATCAGCAGAAACCA 123

QY 121 GGGAAATCTCTCAGCTCTGATCTGCTCCCAACAACTTGGCAGATGGGGTCCCATCA 180
DB 124 GGGAAAGCCCTTAAGCTCTGATCTATGCTGATCCAGTTTGCAAAAGTGGGGTCCCATCA 183

QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGCT 240
DB 184 AGGTTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGCTTGAACCT 243

QY 241 GAAGATTTTGTAAATTTATTACTGTCAACAAGTTTACAGTTCTCCATTCACTGTTCCGTGCT 300
DB 244 GAAGATTTTGCACCTTACTACTGTCAACAGTTACAGTTACACCTTCCCATCTTCCGCGGA 303

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 304 GGGACCAAGTGGAGATCAAA 324

RESULT 14
US-10-956-008-75
; Sequence 75, Application US/10956008
; Publication No. US20060062783A1
; GENERAL INFORMATION:
; APPLICANT: Roskos, Lorin
; APPLICANT: Foltz, Ian
; APPLICANT: King, Chadwick
; APPLICANT: Bell, Gregory
; TITLE OF INVENTION: ANTIBODIES AGAINST PARATHYROID HORMONE
; FILE REFERENCE: ABGENIX.092CP1
; CURRENT APPLICATION NUMBER: US/10/956.008
; CURRENT FILING DATE: 2004-09-30
; PRIOR APPLICATION NUMBER: 10/638,265
; PRIOR FILING DATE: 2003-08-08
; NUMBER OF SEQ ID NOS: 110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 75
; LENGTH: 322
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-956-008-75

Query Match      68.1%; Score 218.6; DB 7; Length 322;
Best Local Similarity 80.1%; Pred. No. 1.4e-59;
Matches 257; Conservative 0; Mismatches 64; Indels 0; Gaps 0;

QY 1 GACATTCAGATGACCCAGTCTCTGCTCCAGTCTGCATCTCTGGGAGAAAGTGTCAAC 60
DB 1 GACATCCAGATGACCCAGTCTCCATCTTCCGTGCTGCACTCTGTAGGAGACAGAGTCAAC 60

QY 61 ATCACATGCTGGCAAGTCAGACCAATGTATACATGTTAGCATGTGTATCAGCAGAAACCA 120
DB 61 ATCACTTGTGGGCGAGTCAGGATTTAGCAGCTGGTTAGCTGTTATCAGCAGAAACCA 120

QY 121 GGGAAATCTCTCAGCTCTGATTTATGCTGCCACCAACTTGGCAGATGGGGTCCCATCA 180
DB 121 GGGAAAGCCCTTAAGCTCTGATCTATGCTGATCCATTTTACAAAGTGGGGTCCCATCA 180

QY 181 AGGTTTCAGTGGCAGTGGATCTGGCACAATAATTTCTTTCAAGATCAGCAGCCTACAGCT 240
DB 181 AGGTTTCAGGCGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGCTTGAACCT 240

QY 241 GAAGATTTTGTAAATTTATTACTGTCAACAAGTTTACAGTTCTCCATTCACTTCCGTGCT 300
DB 241 GAAGATTTTGCACCTTACTACTGTCAACAGGCTAACAGTTTCCCATCTTCCGCGCT 300

QY 301 GGGACCAAGCTGGAGCTGAAA 321
DB 301 GGGACCAAGTGGATATCAAA 321
```


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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: April 18, 2006, 13:32:40 ; Search time 230 Seconds
(without alignments)
358.899 Million cell updates/sec

Title: US-10-764-140-4
Perfect score: 617
Sequence: 1 ETQLQSGPELVKPGASVQV.....RDVTTALDFWQGTTLTVSS 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Uniprot 05.80.*

1: uniprot_sprot.*

2: uniprot_trembl.*

* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	476.5	77.2	481	2	Q8VCV5 mouse
2	475	77.0	117	2	Q9QRF0 mouse
3	474	76.8	117	2	Q9QXE9 mouse
4	470	76.2	134	2	Q65ZR6 mouse
5	470	76.2	483	2	Q4VAB6 mouse
6	463	75.0	117	1	HV12 mouse
7	460	74.6	117	1	HV13 mouse
8	447	72.4	470	2	Q7TMM1 mouse
9	442.5	71.7	488	2	Q91WR1 mouse
10	442	71.6	472	2	Q6PUA7 mouse
11	439	71.2	123	2	Q8VJL1 mouse
12	433.5	70.3	118	1	HV51 mouse
13	425	68.9	120	2	Q920E8 mouse
14	420.5	68.2	485	2	Q58E61 mouse
15	420	68.1	458	2	Q5BJZ2 RAT
16	419	67.9	117	1	HV14 mouse
17	418	67.7	136	1	HV15 mouse
18	414	67.1	120	1	HV03 mouse
19	412	66.8	477	2	Q58E56 mouse
20	411	66.6	481	2	Q91WT1 mouse
21	410	66.5	142	2	Q924Q1 mouse
22	408	66.1	170	2	Q925S2 mouse
23	407.5	66.0	145	2	Q924Q9 mouse
24	404.5	65.6	143	2	Q924R0 mouse
25	404.5	65.6	145	2	Q924R4 mouse
26	402.5	65.2	145	2	Q924Q8 mouse
27	402	65.2	146	2	Q924Q8 mouse
28	401.5	65.1	141	2	Q924Q4 mouse
29	400.5	64.9	137	2	Q924R6 mouse
30	400	64.8	140	1	HV02 mouse
31	400	64.8	146	2	Q924Q3 mouse

32	399.5	64.7	243	2	Q7TQM2 mouse
33	399.5	64.7	465	2	Q6PJB2 mouse
34	399	64.7	146	2	Q924R8 mouse
35	398.5	64.6	139	1	HV07 mouse
36	398.5	64.6	145	2	Q924Q7 mouse
37	398.5	64.6	590	2	Q4V9V8 mouse
38	398.5	64.6	617	2	Q4KML5 mouse
39	398	64.5	468	2	Q569W9 mouse
40	397.5	64.4	145	2	Q924R1 mouse
41	397	64.3	458	2	Q5BK05 RAT
42	396.5	64.3	482	2	Q8K172 mouse
43	395.5	64.1	109	2	Q9JL75 mouse
44	394.5	63.9	143	2	Q924P9 mouse
45	394	63.9	140	2	Q924P8 mouse

ALIGNMENTS

RESULT 1
Q8VCV5 MOUSE
ID Q8VCV5 MOUSE PRELIMINARY; PRT; 481 AA.
AC Q8VCV5
DT 01-MAR-2002 (TrEMBLrel. 20, Created)
DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE LOC238447 protein.
GN Name=LOC238447;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Mix FVB/N;
RC TISSUE=Mammary tumor. WAP-TGF alpha model. 7 months old;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603999;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner K.H., Shenmen C.M., Schuler G.D.,
RA Altshuler S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Donald M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Boeak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Munz D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Mix FVB/N;
RC TISSUE=Mammary tumor. WAP-TGF alpha model. 7 months old;
RG NIH MGC Project;
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC018455; AAH18455.1; -; mRNA.
DR HSSP; P01810; 2FBU.
DR SMR; Q8VCV5; 20-239.
DR Ensembl; ENSMUSG000000021155; Mus musculus.
DR GO; GO:0003823; F:antigen binding; IEA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003597; Ig_c1.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.

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DR Pfam; PF07654; C1-set; 2.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_2.
SQ Immunoglobulin domain.
KW SEQUENCE 481 AA; 52326 MW; 52B44C5826807143 CRC64;

Query Match 77.2%; Score 476.5; DB 2; Length 481;
Best Local Similarity 75.4%; Pred. No. 4.1e-39;
Matches 89; Conservative 13; Mismatches 15; Indels 1; Gaps 1;

QY 1 EIQLOQSGPELVKPGASVQVCKTXGYSFTDYNVVRQSHGKSLWIGYIDPYNGITIY 60
DB 1 EIQLOQSGPELVKPGASVQVCKTXGYSFTDYNVVRQSHGKSLWIGYIDPYNGITIY 60
QY 61 DQNFKGKATLTVDKSSTTAFMHLNSLTSDSAVYFCARDVTTALDFWQGGTTLTVSS 117
DB 80 NQKFGKATLTVDKSSTTAFMHLNSLTSDSAVYFCAREWYGAWFAWQGGTTLTVSSA 137

RESULT 2
O9QXF0_MOUSE PRELIMINARY; PRT; 117 AA.
AC O9QXF0;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Immunoglobulin heavy chain V-D-J region (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Clemens A., Rademaekers A., Specht C., Koelsch E.;
RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=2499887;
RA Baccala R., Quang T.V., Gilbert M., Ternynck T., Avrameas S.;
RT "Two murine natural polyreactive autoantibodies are encoded by
RT nonmutated germ-line genes.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:4624-4628(1989).
DR EMBL; AJ225174; CAB65237.1; -; mRNA.
DR PIR; F33932; F33932.
DR HSP; P01751; INQB.
DR SMR; Q9QXF0; 1-117.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003596; IG_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT NON_TER 117
SQ SEQUENCE 117 AA; 13060 MW; D816AD0859A47E4C CRC64;

Query Match 77.0%; Score 475; DB 2; Length 117;
Best Local Similarity 76.1%; Pred. No. 1.2e-39;
Matches 89; Conservative 13; Mismatches 15; Indels 0; Gaps 0;

QY 1 EIQLOQSGPELVKPGASVQVCKTXGYSFTDYNVVRQSHGKSLWIGYIDPYNGITIY 60
DB 1 EIQLOQSGPELVKPGASVQVCKTXGYSFTDYNVVRQSHGKSLWIGIDINPNNGGTSY 60
QY 61 DQNFKGKATLTVDKSSTTAFMHLNSLTSDSAVYFCARDVTTALDFWQGGTTLTVSS 117
DB 61 NQKFGKATLTVDKSSTTAFMHLNSLTSDSAVYFCARDKYDFYDYGQGGTTLTVSS 117

RESULT 3
Q9QXE9_MOUSE PRELIMINARY; PRT; 117 AA.
AC Q9QXE9;

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DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Immunoglobulin heavy chain V-D-J region (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA Clemens A., Rademaekers A., Specht C., Koelsch E.;
RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.
RN [2]
RP NUCLEOTIDE SEQUENCE.
RX PubMed=2499887;
RA Baccala R., Quang T.V., Gilbert M., Ternynck T., Avrameas S.;
RT "Two murine natural polyreactive autoantibodies are encoded by
RT nonmutated germ-line genes.";
RL Proc. Natl. Acad. Sci. U.S.A. 86:4624-4628(1989).
DR EMBL; AJ225174; CAB65237.1; -; mRNA.
DR PIR; F33932; F33932.
DR HSP; P01751; INQB.
DR SMR; Q9QXE9; 1-117.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003596; IG_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT NON_TER 117
SQ SEQUENCE 117 AA; 13000 MW; CDDE2AF84D499734 CRC64;

Query Match 76.8%; Score 474; DB 2; Length 117;
Best Local Similarity 75.2%; Pred. No. 1.5e-39;
Matches 88; Conservative 16; Mismatches 13; Indels 0; Gaps 0;

QY 1 EIQLOQSGPELVKPGASVQVCKTXGYSFTDYNVVRQSHGKSLWIGYIDPYNGITIY 60
DB 1 EVOLQSGPELVKPGASVQVCKTXGYSFTDYNVVRQSHGKSLWIGIDINPNNGGTSY 60
QY 61 DQNFKGKATLTVDKSSTTAFMHLNSLTSDSAVYFCARDVTTALDFWQGGTTLTVSS 117
DB 61 NQKFGKATLTVDKSSTTAFMHLNSLTSDSAVYFCARDYAMDYWGQGGTSVTVSS 117

RESULT 4
Q85ZR6_MOUSE PRELIMINARY; PRT; 134 AA.
AC Q85ZR6;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Ab 126.33 heavy chain variable and joining regions (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RA MEDLINE=91237115; PubMed=1709665;
RT Rueff-Juy D., Marche P.N., Drapier A.-M., Cazenave P.-A.;
RT "Junctional diversity of H and L chains allows the coexpression of two
RT mutually exclusive idiotopes (Id1104 and Id1558).";
RL J. Immunol. 146:4024-4030(1991).
DR EMBL; M74139; AAA37776.1; -; mRNA.
DR SMR; Q652R6; 18-134.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003596; IG_v.
DR SMART; SM00409; IGV; 1.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.

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```

FT NON TER 1 1
SQ SEQUENCE 134 AA; 14908 MW; 1852D86D26FC7567 CRC64;

Query Match
Best Local Similarity 76.2%; Score 470; DB 2; Length 134;
Matches 88; Conservative 14; Mismatches 15; Indels 0; Gaps 0;

QY 1 EIQLOQSGPELVKPGASVQVCKTXGYSTFDVNVYWRQSHGKSLWIGVIDPYNGITY 60
DB 18 EVQLQSGPELVKPGASVQVCKTXGYSTFDVNVYWRQSHGKSLWIGVIDPYNGITY 77
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSVAVYFCARDVTTALDFWGGQTTLTVSS 117
DB 78 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSVAVYFCARDVTTALDFWGGQTTLTVSS 134

RESULT 5
Q4VAB6_MOUSE
ID Q4VAB6_MOUSE PRELIMINARY; PRT; 483 AA.
AC Q4VAB6_MOUSE STANDARD; PRT; 117 AA.
DT 13-SEP-2005 (TrEMBLrel. 31, Created)
DT 13-SEP-2005 (TrEMBLrel. 31, Last sequence update)
DE Hypothetical protein.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
NCBI_TaxID=10090;
(1)
RN NUCLEOTIDE SEQUENCE
STRAIN=FVB/N; TISSUE=Colon;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603999;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner K.H., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalusz D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences."
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
(2)
RN NUCLEOTIDE SEQUENCE
STRAIN=FVB/N; TISSUE=Colon;
NIH MGC Project;
RL Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC096462; AAH96462.1; -; mRNA.
KW Hypothetical protein.
SQ SEQUENCE 483 AA; 52436 MW; 368E7BEE6B6DE9EF CRC64;

Query Match
Best Local Similarity 76.2%; Score 470; DB 2; Length 483;
Matches 91; Conservative 12; Mismatches 14; Indels 2; Gaps 2;

QY 1 EIQLOQSGPELVKPGASVQVCKTXGYSTFDVNVYWRQSHGKSLWIGVIDPYNGITY 60
DB 20 EIQLOQSGPELVKPGASVQVCKTXGYSTFDVNVYWRQSHGKSLWIGVIDPYNGITY 79
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSVAVYFCAR-DVTTAL-DFWGGQTTLTVSS 117
DB 80 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSVAVYFCARDLTGLFDYWGQTTLTVSS 138

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RESULT 6

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HV12_MOUSE
ID HV12_MOUSE STANDARD; PRT; 117 AA.
AC P01756;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DE Ig heavy chain V region MOPC 104E.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
NCBI_TaxID=10090;
(1)
RN PROTEIN SEQUENCE, AND CARBOHYDRATE-LINKAGE SITE ASN-55.
MEDLINE=83075344; PubMed=6816276;
RA Kehry M.R., Fuhrman J.S., Schilling J.W., Rogers J., Sibley C.H.,
RA Hood L.E.;
RT "Complete amino acid sequence of a mouse mu chain: homology among
heavy chain constant region domains."
RL Biochemistry 21:5415-5424(1982).
CC -1- MISCELLANEOUS: The sequence of the light chain of this IgM myeloma
protein has also been determined.
CC -1- MISCELLANEOUS: This protein binds dextran.
CC -1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
-----
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
between the Swiss Institute of Bioinformatics and the EMBL Outstation -
the European Bioinformatics Institute. There are no restrictions on its
use as long as its content is in no way modified and this statement is not
removed.
-----
CC
CC PIR: A02039; MHMS48.
CC HSPSP; P01751; INQB.
CC SMR; P01756; 1-117.
CC InterPro; IPR007110; Ig-like.
CC InterPro; IPR003596; Ig_v.
CC SMART; SM00406; IGV; 1.
CC PROSITE; PS50835; IG_LIKE; 1.
CC Direct protein sequencing; Glycoprotein; Immunoglobulin domain;
KW Immunoglobulin V region.
FT DOMAIN 1 116
FT CARBOHYD 55 55 N-linked (GlcNAc...) (complex).
FT DISULFID 22 96 By similarity.
FT NON_TER 117 117
SQ SEQUENCE 117 AA; 12983 MW; 3CF9ACE4B8447E41 CRC64;

Query Match
Best Local Similarity 75.0%; Score 463; DB 1; Length 117;
Matches 87; Conservative 13; Mismatches 17; Indels 0; Gaps 0;

QY 1 EIQLOQSGPELVKPGASVQVCKTXGYSTFDVNVYWRQSHGKSLWIGVIDPYNGITY 60
DB 1 EVQLQSGPELVKPGASVQVCKTXGYSTFDVNVYWRQSHGKSLWIGVIDPYNGITY 60
QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSVAVYFCARDVTTALDFWGGQTTLTVSS 117
DB 61 NQKFKGKATLTVDKSSSTAYMQLNSLTSDSVAVYFCARDVTTALDFWGGQTTLTVSS 117

RESULT 7
HV13_MOUSE
ID HV13_MOUSE STANDARD; PRT; 117 AA.
AC P01757;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DE Ig heavy chain V region J558.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;

```

OC Muroidea; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP PROTEIN SEQUENCE.
 RX MEDLINE=80078170; PubMed=6765983;
 RA Schilling J., Clevinger B., Davie J.M., Hood L.;
 RT "Amino acid sequence of homogeneous antibodies to dextran and DNA
 rearrangements in heavy chain V-region gene segments.";
 RL Nature 283:35-40(1980).
 CC -1- MISCELLANEOUS: The sequences of 10 hybridoma proteins that also
 bind dextran differ from that shown at 1-7 positions, many of
 which occur in the D and J segments.
 CC -1- MISCELLANEOUS: This protein binds dextran.
 CC -1- SIMILARITY: Contains 1 Ig-like (immunoglobulin-like) domain.
 CC -----
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 use as long as its content is in no way modified and this statement is not
 removed.
 CC -----
 CC PIR: A26242; MHMSJ5.
 DR HSP; P01751; INQ8.
 DR SMR; P01757; 1-117.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003596; Ig_v.
 DR SMART; SM00406; IGV; 1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 DR Direct protein sequencing; Immunoglobulin domain;
 KW Immunoglobulin v region.
 FT DOMAIN 1 116 Ig-like.
 FT DISULFID 22 96 By similarity.
 FT NON_TER 117 117
 FT SEQUENCE 117 AA; 13025 MW; 292E2AF4B8447E41 CRC64;
 SQ
 Query Match 74.6%; Score 460; DB 1; Length 117;
 Best Local Similarity 74.4%; Pred. No. 3.8e-38;
 Matches 87; Conservative 13; Mismatches 17; Indels 0; Gaps 0;
 QY 1 EIQLOQSGPELVKPGASVQVSKTGYSTFYNNVYVWQSHGKSLWIGYIDPYNGITY 60
 DB 1 EIQLOQSGPELVKPGASVQVSKTGYSTFYNNVYVWQSHGKSLWIGYIDPYNGITY 60
 QY 61 DQNFKGKATLVKSSSTTAFMHLNSLTSDSAVYFCARDVTVTALDPFWGOGTTLTVSS 117
 DB 61 NQKFKGKATLVKSSSTAYMQLNSLTSDSAVYFCARDRYWYFDWVGAGTTVTSS 117
 RESULT 8
 O7TMK1 MOUSE
 ID O7TMK1 MOUSE PRELIMINARY; PRT; 470 AA.
 AC O7TMK1
 DT 01-OCT-2003 (TrEMBLrel. 25, Created)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Hypothetical protein A1324046.
 GN Name=A1324046;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=CZECH II;
 RC TISSUE=Mammary tumor metastasized to lung. MMTV-LTR/Wnt1 model.
 RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altchul S.P., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences.";
 RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [2]
 RN NUCLEOTIDE SEQUENCE.
 RP STRAIN=CZECH II;
 RC TISSUE=Mammary tumor metastasized to lung. MMTV-LTR/Wnt1 model.
 RC Expression driven by an MMTV-LTR enhancer.;
 RA Strausberg R.;
 RL Submitted (AUG-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC055910; AAH55910.1; -; mRNA.
 DR HSP; P01865; 1KB5.
 DR GO; GO:0003823; F:antigen binding; IEA.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003597; Ig_c1.
 DR InterPro; IPR003006; IG_MHC.
 DR InterPro; IPR003596; Ig_v.
 DR Pfam; PF07654; CI-set; 3.
 DR SMART; SM00406; IGV; 1.
 DR PROSITE; PS50835; IG_LIKE; 4.
 DR PROSITE; PS00290; IG_MHC; UNKNOWN 1.
 KW Hypothetical protein; Immunoglobulin domain.
 SQ SEQUENCE 470 AA; 51728 MW; 6D90E4DF896BE090 CRC64;
 Query Match 72.4%; Score 447; DB 2; Length 470;
 Best Local Similarity 69.4%; Pred. No. 3.6e-36;
 Matches 84; Conservative 16; Mismatches 17; Indels 4; Gaps 1;
 QY 1 EIQLOQSGPELVKPGASVQVSKTGYSTFYNNVYVWQSHGKSLWIGYIDPYNGITY 60
 DB 20 EVQLQQSGPELVKPGASVKISCKASGYTFTGYMHVWQSHGKSLWIGLVNPSNGDTSY 79
 QY 61 DQNFKGKATLVKSSSTTAFMHLNSLTSDSAVYFCARDVTFTA---LDFWOGTTLTVS 116
 DB 80 NQKFKGKATLVKSSSTAYMQLNSLTSDSAVYFCARDRYWYFDWVGAGTTVTSS 139
 QY 117 S 117
 DB 140 S 140
 RESULT 9
 Q91WR1 MOUSE
 ID Q91WR1 MOUSE PRELIMINARY; PRT; 488 AA.
 AC Q91WR1
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Igh-VJ558 protein.
 GN Name=Igh-VJ558;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
 OC Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP NUCLEOTIDE SEQUENCE.
 RC STRAIN=FVB/N; TISSUE=Kidney;
 RC MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altchul S.P., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahney J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RA "generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=FVB/N; TISSUE=Kidney;
RA Strausberg R.;
RL EMBL; BC013539; AAH13539.1; -; mRNA.
DR HSSP; P01751; 1A6W
DR Ensembl; ENSMUSG0000021155; Mus musculus.
DR MGI; MGI:96486; Igh-VJ558.
DR GO; GO:0003823; F:antigen binding; IEA.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003597; Ig cl.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF07654; C1-set; 2.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_2.
KW Immunoglobulin domain
SQ SEQUENCE 488 AA; 52965 MW; F12068460B40089D CRC64;
Query Match 71.7%; Score 442.5; DB 2; Length 488;
Best Local Similarity 68.5%; Pred. No. 1.1e-35;
Matches 85; Conservative 14; Mismatches 18; Indels 7; Gaps 1;
QY 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITY 60
DB 20 EVQLQSGPELVKPGASVQLCKASGYTITDYNNVVRQSHGKSLWIGIDINPYNGITSY 79
QY 61 DQNFKQKATLTVDKSSITAFMHLNSLTSDSAVYFCARDVT-----TALDFWGGTTL 113
DB 80 NQKFKGKATLTVDKSSIAIMQLNLTSDSAVYFCARGVYYSFSDRGDYWGQGTLLV 139
QY 114 TVSS 117
DB 140 TVSA 143
RESULT 10
Q6PJA7 MOUSE
ID Q6PJA7 MOUSE PRELIMINARY; PRT; 472 AA.
AC Q6PJA7
DT 05-JUL-2004 (TRENBLrel. 27, Created)
DT 05-JUL-2004 (TRENBLrel. 27, Last sequence update)
DE Hypothetical protein.
GN Name=Igh-1a;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;

RC TISSUE=Mammary tumor metastatized to lung. MMTV-LTR/Wnt1 model.
RC Expression driven by an MMTV-LTR enhancer.;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Scapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahney J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RA "generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastatized to lung. MMTV-LTR/Wnt1 model.
RC Expression driven by an MMTV-LTR enhancer.;
RA Strausberg R.;
RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC018535; AAH18535.1; -; mRNA.
DR HSSP; P01865; 1KBS.
DR MGI; MGI:96443; Igh-1a.
DR GO; GO:0003823; F:antigen binding; IEA.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003597; Ig cl.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF07654; C1-set; 3.
DR SMART; SM00409; IG; 2.
DR SMART; SM00407; IGC1; 3.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN_1.
KW Hypothetical protein
SQ SEQUENCE 472 AA; 52299 MW; 165169C23D55D4B CRC64;
Query Match 71.6%; Score 442; DB 2; Length 472;
Best Local Similarity 68.3%; Pred. No. 1.1e-35;
Matches 84; Conservative 16; Mismatches 17; Indels 6; Gaps 1;
QY 1 ETLOQSGPELVKPGASVQVCKTGYSTFDYNNVVRQSHGKSLWIGYIDPYNGITY 60
DB 20 EVQLQSGPELVKPGASVQVCKTGYSTFDYNNVVRQSHGKSLWIGYIYPNNGNGY 79
QY 61 DQNFKQKATLTVDKSSITAFMHLNSLTSDSAVYFCARDVT-----ALDFWGGTTLT 114
DB 80 NQKFKGKATLTVDKSSITAFMHLNSLTSDSAVYFCARGVYYSYDHYDFWGGTTLT 139
QY 115 VSS 117
DB 140 VSS 142
RESULT 11
Q8VIJ1 MOUSE
ID Q8VIJ1 MOUSE PRELIMINARY; PRT; 123 AA.
AC Q8VIJ1
DT 01-MAR-2002 (TRENBLrel. 20, Created)
DT 01-MAR-2002 (TRENBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Anti-DNA heavy chain (Fragment).

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GN Name=J558;
OS Mus musculus (Mouse);
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1];
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C3H/HeJ-lpr/lpr;
RC MEDLINE=96409289; PubMed=8814271;
RA Wloch M.K., Alexander A.B., Pippen A.M., Pisetsky D.S., Gillespie G.S.;
RT "Differences in V kappa gene utilization and VH CDR3 sequence among
RT anti-DNA from C3H-lpr mice and lupus mice with nephritis.";
RL Eur. J. Immunol. 26:2225-2233(1996).
DR EMBL; U59154; AAB02916.1; -; mRNA.
DR HSSP; P01751; INQB.
DR SMR; Q8VJ1; 1-123.
DR Ensemble; ENSMUSG0000057521; Mus musculus.
DR InterPro; IPR007110; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT NON_TER 123
SQ SEQUENCE 123 AA; 13806 MW; CC0037A806E9911E CRC64;

Query Match 71.2%; Score 439; DB 2; Length 123;
Best Local Similarity 69.1%; Pred. No. 5.1e-36;
Matches 85; Conservative 12; Mismatches 20; Indels 6; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCVTKXGYSFTDYNVYVRQSHGKSLWIGYIDPYNGITY 60
   |||||
Db 1 EIQLQSGPELVKPGASVQVSCVTKXGYSFTDYNVYVRQSHGKSLWIGYIDPYNGITY 60
   |||||

QY 61 DONFKGKATLTVDKSSSTTAPMHLNSLTSDSAVYFCARDV-----TALDFWGGTTLT 114
   :|||
Db 61 SQKFKGKATLTVDKSSRTAYMQLNSLTSDSAVYFCARDYTYTYVDEGCFAYWGGTTLT 120
   :|||

QY 115 VSS 117
Db 121 VSA 123

RESULT 12
HV51_MOUSE STANDARD; PRT; 118 AA.
AC P06330;
DT 01-JAN-1988 (Rel. 06, Created)
DT 01-JAN-1988 (Rel. 06, Last sequence update)
DT 10-MAY-2005 (Rel. 47, Last annotation update)
DE Ig heavy chain V region AC38 205.12.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1];
RP PROTEIN SEQUENCE.
RX MEDLINE=84182519; PubMed=6201362;
RA Dildrop R., Bovens J., Siekevitz M., Beyreuther K., Rajewsky K.;
RT "A V region determinant (idiotype) expressed at high frequency in B
RT lymphocytes is encoded by a large set of antibody structural genes.";
RL EMBO J. 3:517-523(1984).
CC -----
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CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR PIR; A02040; MHMS38.
DR HSSP; P01751; INQB.
DR SMR; P06330; 1-118.

```

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DR InterPro; IPR007110; Ig-like.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Direct protein sequencing; Immunoglobulin domain;
KW Immunoglobulin V region.
FT REGION 1 98 V segment.
FT REGION 99 104 D segment.
FT REGION 105 118 J segment.
FT DISULFID 22 96 By similarity.
FT NON_TER 118 118
SQ SEQUENCE 118 AA; 12934 MW; 94F7BEE4C762A018 CRC64;

Query Match 70.3%; Score 433.5; DB 1; Length 118;
Best Local Similarity 70.3%; Pred. No. 1.7e-35;
Matches 83; Conservative 13; Mismatches 21; Indels 1; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCVTKXGYSFTDYNVYVRQSHGKSLWIGYIDPYNGITY 60
   :|||
Db 1 EVQLQSGPELVKPGASVQVSCVTKXGYSFTDYNVYVRQSHGKSLWIGIDINPNNGTYS 60
   :|||

QY 61 DONFKGKATLTVDKSSSTTAPMHLNSLTSDSAVYFCARDV-TTALDFWGGTTLTVSS 117
   :|||
Db 61 NQKFKGKATLTVDKSSSATYMLKSLTSDSAVYFCARGYDPPDVMGTGTTVTSS 118
   :|||

RESULT 13
Q20208_MOUSE PRELIMINARY; PRT; 120 AA.
AC Q920E8;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Pterin-mimicking anti-idiotope heavy chain variable region
DE (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1];
RP NUCLEOTIDE SEQUENCE.
RA Atkin J.D., Tape A., Jennings I.G., Horaitis O., Cotton R.G.H.;
RL Submitted (SRP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF307936; AAL09420.1; -; Genomic_DNA.
DR HSSP; P01751; INQB.
DR SMR; Q920E8; 1-120.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003596; Ig_v.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1 120
FT NON_TER 120 120
SQ SEQUENCE 120 AA; 13204 MW; DC4834AB1DE56F3C CRC64;

Query Match 68.9%; Score 425; DB 2; Length 120;
Best Local Similarity 68.3%; Pred. No. 1.3e-34;
Matches 82; Conservative 14; Mismatches 20; Indels 4; Gaps 1;

QY 1 EIQLQSGPELVKPGASVQVSCVTKXGYSFTDYNVYVRQSHGKSLWIGYIDPYNGITY 60
   :|||
Db 1 EVQLQSGPELVKPGASVQVSCVTKXGYSFTDYNVYVRQSHGKSLWIGIDPYNGTYS 60
   :|||

QY 61 DONFKGKATLTVDKSSSTTAPMHLNSLTSDSAVYFCAR----RDVTTALDFWGGTTLTVS 116
   :|||
Db 61 NQKFKGKATLTVDKSSSATYMLKSLTSDSAVYCAVYYGNSPAWYWGQGLTVTVS 120
   :|||

RESULT 14
Q58E61_MOUSE PRELIMINARY; PRT; 485 AA.
AC Q58E61;
DT 10-MAY-2005 (TrEMBLrel. 30, Created)

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DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Igh-VJ556 protein.
GN Name=Igh-VJ558;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastatized to lung. MMTV-LTR/Wnt1 model.
RC Expression driven by an MMTV-LTR enhancer.;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences."
RN Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
[2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastatized to lung. MMTV-LTR/Wnt1 model.
RC Expression driven by an MMTV-LTR enhancer.;
RG NIH MGC Project;
RL Submitted (MAR-2005) to the EMBL/GenBank/DBJ databases.
DR GO:0003823; Frantigen binding; IEA.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.
DR Pfam; PF07654; Cl-set; 3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00406; IGV; 1.
DR SMART; SM00407; IGC1; 3.
DR PROSITE; PS50835; IG LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN 2.
SQ SEQUENCE 485 AA; 52628 MW; F08C1FB47C4E44EC CRC64;

Query Match 68.2%; Score 420.5; DB 2; Length 485;
Best Local Similarity 65.6%; Pred. No. 1.7e-33;
Matches 80; Conservative 17; Mismatches 20; Indels 5; Gaps 1;

QY 1 ETLOQSGPELVKPGASVOVSKTXGYSTFDYNNVVRQSHGKSLIEWIGIDPYNGITTY 60
DB 20 EVLQQQSGAELVKPGASVKISCKASGYTFDNDYMDWKQSHGRSLIEWIGNINPNYDSTIY 79

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSSAVYFCARDVT-----TALDFWGQTLTV 115
DB 80 NQKFGKATLTVEKSSSTAYMELRLSLTSDSSAVYFCARTETTYTSDGFGAYNGRGLTV 139

QY 116 SS 117
DB 140 SA 141

DT 10-MAY-2005 (TrEMBLrel. 30, Last sequence update)
DT 10-MAY-2005 (TrEMBLrel. 30, Last annotation update)
DE Igh-VJ556 protein.
GN Name=Igh-VJ558;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muroidae; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastatized to lung. MMTV-LTR/Wnt1 model.
RC Expression driven by an MMTV-LTR enhancer.;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences."
RN Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
[2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=Czech II;
RC TISSUE=Mammary tumor metastatized to lung. MMTV-LTR/Wnt1 model.
RC Expression driven by an MMTV-LTR enhancer.;
RG NIH MGC Project;
RL Submitted (MAR-2005) to the EMBL/GenBank/DBJ databases.
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DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003597; IG cl.
DR InterPro; IPR003006; IG_MHC.
DR InterPro; IPR003596; IG_v.
DR Pfam; PF07654; Cl-set; 3.
DR SMART; SM00409; IG; 3.
DR SMART; SM00406; IGV; 1.
DR SMART; SM00407; IGC1; 3.
DR PROSITE; PS50835; IG LIKE; 4.
DR PROSITE; PS00290; IG_MHC; UNKNOWN 2.
SQ SEQUENCE 485 AA; 52628 MW; F08C1FB47C4E44EC CRC64;

Query Match 68.1%; Score 420; DB 2; Length 458;
Best Local Similarity 64.1%; Pred. No. 1.8e-33;
Matches 75; Conservative 20; Mismatches 22; Indels 0; Gaps 0;

QY 1 ETLOQSGPELVKPGASVOVSKTXGYSTFDYNNVVRQSHGKSLIEWIGIDPYNGITTY 60
DB 20 EVLQQQSGAELVKPGASVKISCKASGYTFDNDYMDWKQSHGRSLIEWIGNINPNYDSTIY 79

QY 61 DQNFKGKATLTVDKSTTAFMHLNSLTSDSSAVYFCARDVT-----TALDFWGQTLTV 117
DB 80 NQKFGKATLTADKSSSTAYMQLSLTSDSSAVYFCARDYFDGYDYGQGVNVTYSS 136

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Search completed: April 18, 2006, 13:39:33
Job time : 231 secs

Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension **.rup**) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (UniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.

When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.

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